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on 28 December, 2018

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78 2"9 0: ; < "9 5 = > 24": 400? "4><5 "5 " "0< ; "9< 24 ; < "9< ; 42 =9 5< 4@" 25 * ; "9< A 2BA40 A4 " "> "9< ; <) "9< A< B 2 B< ; 5" ?3 2 "9< 9 5" @40 A< B& " ; 4? C< 54 B& <D@<A" "9 5< 0<D42B< "9< <4"& 6:0 :5 4<54 & 42B "94 0<2:8< 3 =45 5 @ ; A0<"<0? B ; 24"< C? 4 5 2-0< A< 5 240 "?) 9<) 4-<5 "94 0<5 "9< ' "9 42B (: 5 "9< ' : "<<2"9 ; 4? 2 5 ; < <5A<@"5 0E< @ ; A4 <B = "9 "94" 4A 0< 2 C:" 2 2< "98 =45 "9< A< 5 240 2 0:<2@< "9< 5 G< < -2 5 G< A =< 2- 2 2< "9< =45 "9< 5:A < ; 4@? "9< ! "4"< 8DH2A) ! "4"<5 :2B< 9 5 ; ; <B 4"< @ 2" 0 5 <D"<25 G< 5 B<@ B<B) < G< & "9< 45@<2B42@? 94 0<5 "9< ' "9 =45 ; 4 20? B:< " "9< 480 ; < 4" 2 G45") B =< B"9?"< " <5 2 "9< 942B 4 ; 2 ; @9 " =9 ;" "9<? A455<B C?9< <B "4 ? B<5@<2" =9 0< "94" (: 5 "9< ' : "<<2"9 =45 4"9< "9< = > A <B<@<55 5 42B 5:C B 24"<5 "942 9 5 =2) 4A 0< 2& 2 "9< @ 2" 4 ?& =45 2 " 20? "9< 4 @9 "< " 9 5 =28 " 2<5& C:" "9< A ; <& @ <4" "94" <2 ; :5 8 = < I = "9 =9 @9 9< G< 4=<B : A<) & 4-4 2& "9< A< 5 240 " <5) <542B< & 6:0 :5& 42B 94 0< ; 4-2<B ; 24"<B "9< <A @95 45 B B "94" 4A 0< 2& "9< 4 <45 G< =9 @9& "9<? C < 5=4? =< < 2 " @ ; A4 40B< = "9 "94" B <@"0? 2B <@"0? 4 0<@"<B C? 4A 0< 2J5 A =<) <G< C< < 94B "9< =9 0< : A<& ; "9< 405 " "9< "042" @& ; @9 K 42-<0 " 4A< 4"4A<2& C<<2 >2 " "@8 "9< 2 2< G45" A4 "2< 59 AL 5" < 5:C :-4" 2 2<G< C< < 94B "9< ": 2<5 400 "9< 24" 25L "9< %<5" B<A<2B<B :A 2 "9< 1 "< 2< ; 42) =45 : A< 40 2<@ 2@< 2<B 2 "9< 5:@@<55 4 02 < 9 5 <4@9 2-4 ; C @ ; 5 G45" <- 25 5 4& @4& 42B ; < @4 =< < B 4=2 2" "9< @ 2 0@" " =9 @9 "9<? -4G< 5<) " 945 C<<2 <5< G<B 5"4"<5 ; <2 : =2 " ; < " 5A<56@ = " " 4"9 F & 2 "9< 04""< B4?5 M"9< 2 2<"<<2"9 @<2": ?& "9< =9 0< = 0B "9< 5" " ; < <0" "9<

; :": 40 4@" 2 42B <4@" 2 400 < ; C 4@ 2- A 0 " @40 @<58 "9< A<2 2- ?<4 5 "94 @<2"A ? = "2<55<B 4 ; 8><B 4BG ; @< " =4 B5 5 : B 4 < 25 ; ; 4" 2 42B "94 4BG42@< =45 2 "9< ; 4 2 "9< = > 4A 0< 2)) 8

9< A< B @ G< <B C? "9 5 G 0: ; < 5 C : 0 ""0< 0 2- < C42 "94 @ G< <B C? "5 ; ; <B 4"< A <B<@<55) <G<2 2 B< ; 5" ? @42 C< 54 B " A 55<55 - <4"< 5 -2 @42@< "942 "9< ' <2B <G 0 : " 2F C : "9< @ 25<N : <2@<5 "94 <G<2" C<? 2B "9< C B< 5 ' 42@< = : 0B 94G< C<<2 @ ; A4 4" G<0? 50 - 9"94B 2 "9< @<5 =9 @9 <2 - <2B< <B C < 8 -4"9 ; <B : A 2 2< 942B 42B 04 : 2@98 : 2B< "9< B <@" 2 4 8 - 0< = 00 4 - 4 25" "9< 42" N : 4"<B A 0 " <5 : A< 9 5 5 2 "9<0A04@< " B 5@ : 55 "9< < <@"5 42 ; A4@" =9 5< @<5 9 =<G< B<G<0 A<B B G< "<B5 5 2 ?<" 8 9 4 : 5"<BF =< 2<<B 20? < ; 4 > "94" 0 ; 8 ? "9<6 B<44 =9 8 94G< C<<2 P ; 5" A "<2" 2 2 2< "<<2"9 @<2" : ? : A< 6 ; 5A F8 - 2" A 4@" @40 0 < 2 <G 0 : " 24 ? ' 42@! J " 5 A 2@ A400? " 4A 0< 2 "94 "0 ; ? =< "9 ; B : 5 2) 9< 9 5" @40 <G<2"5 24 4"<B 2 "9 5 G 0: ; < A 55<55 "9 : -9 "9 5 4@" 42B "9 : -9 "9< B ; 242@< 42 G< =9<0 ; 2- A< 5 240 "? 4 @ 9<5 2 4 : 2 "? =9 @9 2 A <@<B 2- A< B < B< ; < 5" ? @42 @04 ;) 9<? : 2 0B "9< ; 5<0G<5 = "9 B 4 ; 4" @ @ 2" 2 : "? 45 4 - <4 " 4-<B? A04?<B : " : A 2 "9< 5"4-< "9< = 0B <D9 C " 2- "9< 5< 42B B<G<0 A ; <2" "9< " : 2A9 42B "9< 400 4 A< 5 24-< =9 5< 4@" 25 42B " : 2<5 ; 5 " 045" B ; 24"< "9< A <@<)

9< <5" ; 4"<5 4A 0< 2J5 @94 4@"< 42B "9< G40 : 4" 25 9 5 = > 94G< G4 <B 42B 00 40=4?5 G4 ?45 = B<0? 45 B "9< "< ; A< 5 42B A 2 25 9 5 : B - <5) = 00 2 C< <DA<@"<B)"94 4 = > "9 5 24" : 59 : 0B 4BB " "9< 2 : ; C< "9<5< : B - ; <2"5F : "45> 5 4"9< " 04? C< < : <4B< 5 42 ; A4 " 40 5 : G8 "9< 4@"5 2 =9 @9 42? 4 @ 2@0 : 5 2 ; : 5 <5") 94 0884A 0< 2 B : 2- "9< - <4"< A4 9 5 0 <=45 9 5" 0< " "9 5 @ : 2" ? = 00 2 " 4 "< "9< 04A5< 2<4 0? 4 @<2" : ? C0 2B 2-0 59 ; <2 " 9 5 - <4"2<55F 42B <2B59 A 945 94AA 0? "4><2 "9< A04@< : A 0 2-<B 42B "<2 C ""< G40 ? = "9 "9< @ : 2" ? G< =9 @9 9< : 0<B) 59 : 0B "< C< - ""<2 "94 "9< 5" : --0< = "9 4A 0< 2 C<5 B<5 5 = 2- "9< 5<<B5 24" 240 <G G40 42B A 0 " @40 < ; 4" 2 "9 : -9 : A< 94B 42 "9< <5 : 0 94AA? 4 : - : ? "9< : ": <) <4 "4 2 C < "9< 0<4B 2- A4 2 "94 5" ; --0<F 2 "9< = B5 $ ""4 94G 2- 54G<B 9< 5<0 C? 9< <D< " 25 59< 54G<B : A< C? 9< <D4 ; A0<4 5

<N:400?" 4<"94" 240 G@" ?@ :0B 2<G< 94G< C<<2 -4 2<B C?"9<
< "5 9 =<G< A< 5 5"<2" 4 5 2-0< !"4"<) & "=45 " : A< 2 4 ;5
"94" "9<@ 2N:< : A< 5:@@: ; 08F 42B G@" ?2 =4 =45
; ; <B 4"<0? 00 =<B C?4@ ; C 2<B < "A <25: <"9<@ 2" 2:42@<
A<4@<) 9< 2-45 <224 =45 "9< 5" @@45 2 2 =9 @9 4008"9<
$ =< 5 :7AA<8"2<"6C : 5<"" <2"<8 ; 4" 28 A<4@<:0 B<)
C8" N2 9< A 0 "@40 :2 "G 9 @9) ; 4 >5 "9< <A B0 <4@9<B "5
@0 ; 4D 2 "94" 455< ; C0?)F 42B 9 =<G< @9<N:< <B =45 8 < 5:@@<55
"94" 5" <DA< ; <2" " 945 9 ; < <; 4 >4C0< : 8 0 < A<4@<
; DEA< 945 <N:<2"0?C1<289=9<2 K K8 "9< : A<42 2@<
945 " 48 F C:" A8 @ 5"4"<5 ; 8Q6 4?A 8 " ?A2 898 "9<
045" @<2"N ?" " RB0 =)) 9<)8 8 ; < 5<"4" # <2A44)S)"9<C<5") ; <4A-0
4? B 2- =4) 9 5 5 2 "68< 0<45" "9< C< < "5 "94" ; 4? C< " 4@<B
" 8"9 8 ; B &@86U68H 0<8) 0

 400 : @ 2" C:" 5 <5A<@ 400?") "9 5< < -2 = "< 5
B 5" 2@" 2 =9 5< 4 B =< 94G< C<<2 " ; 4"< <2 :-9 " C"4 2 =<
<DA <55 : 9<4 "? "942>5) "9< ; 42B " : <4B< 5 =< =< 42
4A 0 -? "9< B<04? 2 "9< 4AA<4 42@< "9 5 SG 0:; <F C:" =< 2<<B
2 " <2:; < 4"< "9< :2<DA<@"<B B @:0" <5 " =9 @9 "94" B<04? 945 C<<2
B:<) %< B<5 <0" <DA <55 : - 4" ":B<" "9< -9" 2) !))
(?400))) 42B " ! 94 0<5 (?400)) !)) 455 5"42@< > 2B0?
<2B< <B 2 <-4 B " 2B 42 = B5 42B 5 ; < 4@"5 2B 42 9 5" ?)
9< 5?5"< ; 4B A"<B 2 "9< 5A<00 2-5 ; B 4@@<2":4" 2 2B 42 24 ; <5 5
C45<B 2 "94" ! % 00 4 ; :2"< C:" ; B <B 2 "9< @45<
@< "4 2 ; 5 2 =9 @9 :5< 42B @ 2G<2" 2 5<< ; " 94G< @ 2 < <B 4
A <5@ A" G< -9") %< 4 < 405 - 4"< :0 " 94 0<5 !@9 ; B" 4
G40:4C0< 2 "< 2 "9< @ 2"<2"5 "9< 4" 240 @9 G<5 2 $4 5F 5 ; B
" $ <55 $4 5<" ; 5" > 2B0?<G 5 2-"9< <2" <5 "9< ' <2@9
C >5 2 "9< @ A :5 C C0 - 4A9 <5)

9< 2<D" G 0:; <" C< A:C0 59<B 0) E 5 4 4BG42@<B 42B = 00
" 5 9 A<B 4AA<4 2 "9< @ : 5< "9< 2<D" : ; 2"95)

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?' @"< : 8 0<"" <8' $ <55 B< ; 5" ?' 2' "9< 2 G< 5 "?' 42@?)

$ $ 5 " 2' 42B' A 0 @?' " ' < 25 : 05) $0 44@<)' 9<') <' 25" " : " 2& <=5' ! B?<5 !<2 ! 5 8' ""<2 <2" 2' 24A4 "<' 9<' 25" " : " 2' "9<' ?<4) & 9<' 55< ; C0 <5' 42B' "9<' <D<@ : " G<' <' 25 : 05)' 42 - < ; <2"5' "9<' 4A 5 " 2' "9<' 55< ; C0 <5 <' : 2@ 0' ! "4"<' 0)))))))))))))))))))))))))))))))))) <' - <4" @<5' ! "4"<')))) <2< 40' 4 B5)' "9<' ?<4 (<"B' G< 2 ; <2")' 9<' $ < <@"5' 24 8 : "<!5' @ 405)' $4@ @4" 2' "9<' =<5" ?40 5"5' 42B' 8 : C0 @425')))) 6 : 2405)' "40 42' @4 ; A4 - 2)' ! ! 5 : AA <55<B)' <A : C0 @42' 8 B" 2' ?40 5" A0 "5)' "'< ; A" 2' 24A4 "<!5' 0 <' <4"?' (22BG <)' 55< ; C0 <5' A : -<B' ; : 8"?)' 25 : 04"<' (< <' (<- 2' 2 :))))))))))))))))))))))))))))))))) 0 "4 ?' @ 25A 4@?)' [(C<0' A0 "\ 42B' 25" " : " 2' "9<' ?<4 X' <' 55< ; C0 <5)' <' <0<@" 4"<') <' ; A< 40' : "& ' <2@9' 5 @ <"?') $ G 2@ 40' 5 @ <"?)' ' 242@<)' $2C0 @ B<C") $: C0 @' <@< A"5' 42B' DA<2B " : <') 4D<5)' <' C : B-<")' <' 42>' ' 4A<<)' <2<=40' "9<' =4 = "9' 2-042B 4B : B4 5 @ 25A 4@?)))))))))))))))))))))))))))))))) 5@ G< ?' 4B : B40!5' A0 "'))) <5" 42B' <D<@ : " 2' "9<' : <' B! 2-9 <2']' 5"4C0 59 ; <2" "9<' ; A <)' $ 8C "<' K Z G]' <5 : 0"5' "9<' 25 : 04"<'))))

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8 4" KY K K)

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42B : " $<"< 9 :5<(4 ; C B-<)
2) ?") %))))(2 "? 8(D B)

$ 2
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@@<55 2 $4 :0) 942-<5 4" : " U
4 0?A 0@? $4 :0)))
:55 4 42B ! =<B<2 0 Y
0 ! =<B 59 8 ? 4"94 2<)
$5 :0 42B "9< / 2 -9"5 ! " 6 92) W
:55 4 42B ' 42@<)))) Z
:55 4(:5" 4(42B 2-042B ZK
- 2 "9< ' 5" ; <B <:" 40 "?))Z
; ' 5" ; <B <:" 8 "? Z
'4 0: < B < ' 5" ; <B <:" 40 "?) ZZ
! =<B<2(<2 ; 4 9(42B <4" 08"4 2) & $ ZU
- 2 "9< !<@ 2B ; <B <:" 40 "? Z
9< !<@ 2B ; <B <:" 40 "? ZY&
$4 :0 K 42B 24A4 "<) ( )) Z
? 422? $4 :0))) ZW
<4"9 9 :0) 2B "9< !<@ 2B ; <B <:" 40 "? U
" 59 A042 A< 4" 25 2 "9< 40" @ UK
4""0< A<294-<2)) U
9< 9422<0 42B "9< <B "< 42<42)) U
!4 : ; 4 <8 "= 4@" 25)))) UZ

$ ' '$ $ (KYWW K)

; "((@<2@ 8 8 0<"" <5($ <55 5" ?" 4"
"9< 8@ 0< A 0?"<@92 N :< 8< 40< ^ : @9)

942-<5 2 24" : < "9< =4 = "9 : A< UU
<2" 2 :4" : "9< =4)) U
$0 ; 5 24A4 "< UY
9< =4 2 < ; 42? 42B "40? U
4A 0< 2)5 2G45 2 "40?) UW
9< A4554-< "9< ! " < 24 B K
24A4 "< 2 (; C4 B?
9< C4""0< 4 <2-
<5 :0"5 "9< C4""0<)
<4 :)5 5 :@@<55<5 2 0< ; 42? Z
; 5" @< 42B 28 " 4" 25) U

8" 4" 25 C ><2))) <4
S 9< C4""0< 9<20 2B<2) Y
_ @9 ! @< 5<5 2 "40?) H)
9< $<4@< R (: 2BG 00<))) B
24A4 "<!5 A0425 - 4 25"" <4"" "4 2) Y
2 02<2@<5 42B 4-"2 45" A<4@<)) & $ %
! AB2& $ ": -40 42B -? "")))) R 8 0 Y
<@ 2@ 0 4" 2 "" "4 2 42B :55 4 Y
$ 5 " 2 42B 4 ; 5 24A4 "<) YZ
! -24": < A <0 ; 24 <5 A<4@< YÙ
5@ : 5B 25 4"" ; <25)) :) %
< $<4@< ; <25)))) ŸŸ
' <2@9 " ; " <5 = "9 $: 55 4 42B :55 4 & Y
; A <55 25 "9< $<4@< 0))) Y
$ << 25 24": < "9< $<4@<))

$ `)

! "" #$ % & ' % &" ()*(+)

"G & ?$ <55 , -#

" 42 G <=5 4C :"" ' 42@<))) &)) K
24A4 "<!5 " B 42 A 0 @?")) *))))
$ <B ; ; " 42B "9< 2<=' <A : C0 @5
-42 54" 2 "9< 540A 2< <A : C0 @)) Z
24A4 "< C<@ ; <5 $ <5 B<2"" & 0) U
G< 2 ; <2"" "9< 540A 2< <A : C0 @)
: 2"" <0a 45 @< $ <5 B<2") <2 @< 42B :5@42?M Y
; <& 4A0<5& 42B 2 "9< 2 "40?) 0042B
942-<5 2 "9< 4"4G 42 <A : C0 @)))) W
92AA 2" ; <2"5 "9< : "@9)) " WK
J8 <@"5 "9< <G 0 : " 2 2 < ; 42?)))) 0 W
0 9< 0< "" C42> "9< 9 2<) !<@ : 04 54" 2 2 < ; 42? W
2"< G<2" 2 24A4 "< 42B "9< 54 W
9< ; A< 40 <@<55 K &))) 0) WZ
2 0 : <2@< "9< <G 0 : " 2 2 ! = "a< 042B)) WU
$ 0 @? "9< <@" ? 2 ! = "a< 042B W
$4 " <5 42B @ : A5 2 ! = "a< 042B WY
9< 25" " : " 2 40 ; 4 5 2))))) W
9< 25" " : " 2 < 2 @ < B))))))

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$ ') ' / K Z KZ $ <55

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4A 0< 2J5 " 0?) 5 ; 4 4-<) K Y
9< <25" "4" ; < "9< <4 X MK
) 0 < 558 <5) 9< 2@ ! "4"< K
9< ; A< 40 9 < 4 @9) 9< 42B -2 "4 <5
00 < "594050) 9< B : @40 < 5
S 9< 2<= 4 9 0 " &
9< ; A< 40 9 : 5<9 0B KK
)8 9< 4 ;) 25@ A" 2 KKZ
6> R: A2E4" 2 "9< @ 25 8A 2 KKU
9< 4" 240 : 4 B) ' 2" ; @< KK
@ 2 ; @ @ 5 5 K U) 9< 42>) 4D<5 KKY
bb8 2@ ; < ; 4C 4B) 9< : B-<" KK
4" 240 <C") 9< 9*B5) $: C0 <)= >5 KKW
] ; A< 40 A404@<5) :5<: ; 5L 9< 4A "40 K
M @ 2 ; @ A 0 @? 4A 0< 2 K K
:5" ; 25) 9< 2" 2<2"40 !?5"< ; K
; A "5 42B 5 2" ; -0 2-' 0) K
' < -2 " 4B<) ="9' 2B : 5" ? K Z
0 0 ' <2@9 ; 42 : 4@" : <5)) M) b K U
%<40"9 42B A G< "?) $: C0 @ 9 " :<" <27 K
Mb3 9< ; A< 40 2 G< 5 "? <5"4C0 59<B0 V) K Y
-42 54" 2 "9< 2 G< 5 "? &) M K
9< 25" " : "<) 9< <25< 8 A5 M 8 K W
0bbY 9<4" <5 42B 2<=5A4A< 5 (S) K
0 "< 4" : <) 94"<4 : C 42B)M K K
" 4B4 ; < B< !"4!9 " @ 5 ; 42B 9c 5 A9?0 K
))80 ! @ <2@< 42B 4 ") M) K
3 @9 "<@" : <) 9< [; A < 5"?0<J)) K Z
$4 2" 2-' 42B ; : 5 @))) K U
08 42N : 00 "? 42B A 5A< "? " 42@<) K
< ; 4 00 "J5 A0 ") 2 B<"? 4C 2"0 !A4 ; 0 K Y
!@9< ; <5 400<? 42B 42B ' 2@9B K
9< B G @< 6 5<A9 2< K W
4 4-< = "9 4 < (: 5<) ' N@9B B 5 ; 55<B KZ
2 5"< @942-<5 K K KE KZK
4C5 0 : " 5 ;) "9 9< / 2-' ; < KZ
<<8? 2B : 5" ?) 40<"J5 A0 ") KZ
' 8 <' 40<"J5 A0 ") "5 ; <42 2-' KZZ
: 2@ 0 <-<2@?) 9< 55< ; C0 <5) KZU
9< ; A8 40 5<55 2) (" 2<J5 <A ") KZ
4A 0< 2 <A ; 42B5 "9< 0<- 504" G< B? KZY

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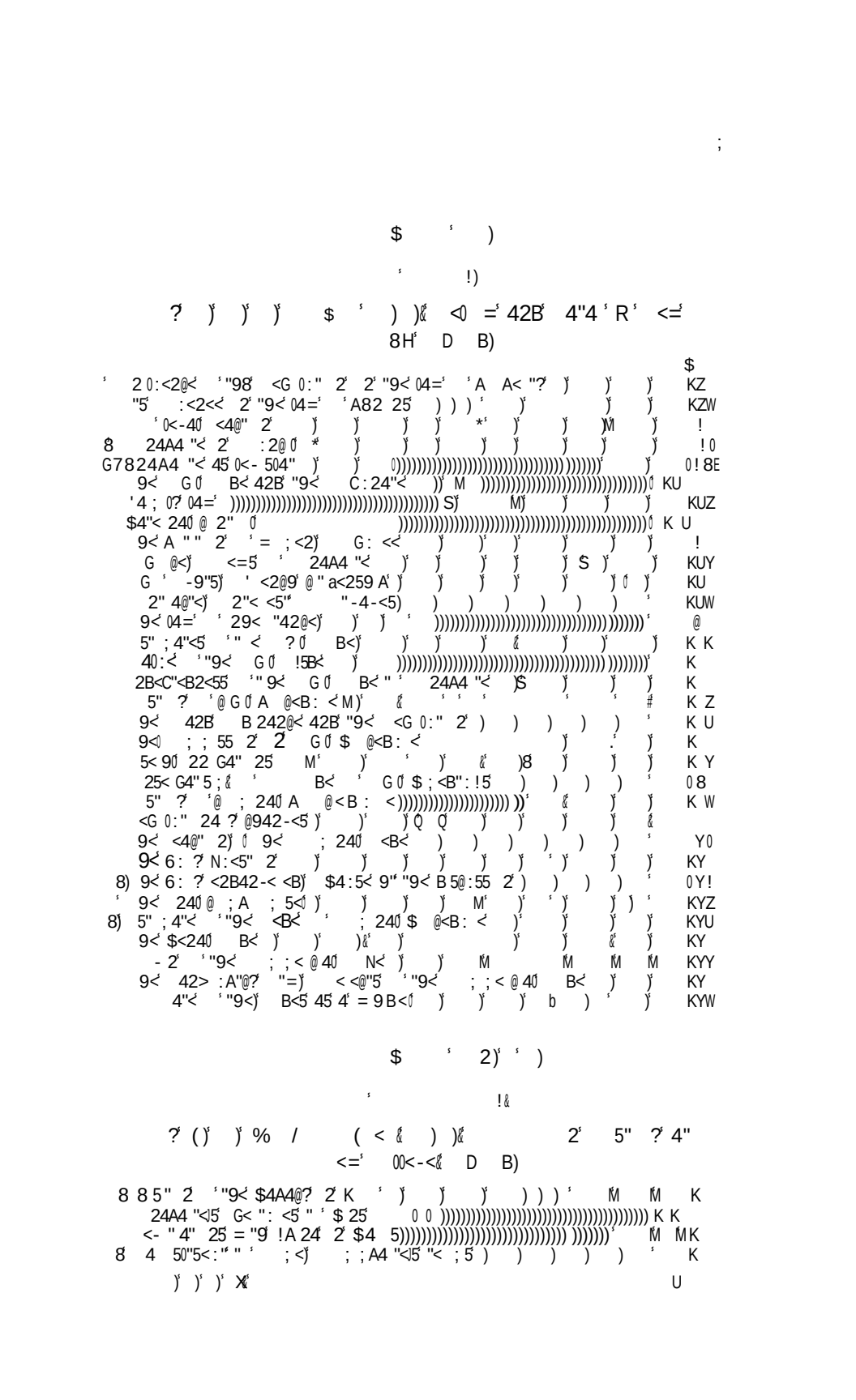

D ?

$ 2
! 40G 2 $4 5) 0 < 2@ B4" 5 -2<B)))
K Z
94 4@"< " 9< 2@ B4" ( ))))
K B
9< 25" " : " 240 9 : @9) 9<) *
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9< 2@ B4" 4" <B) 9< -42 @ " @0<5)
K Y
9< 2<= 59 A5) : ; 8 ; 4A4 "< (
K
99 "9< B< ; 42B5 248 "<))))
K W
< "40 42 2@ B4" 9< A <55F) 9< B< 5
KW
0 " : _8 42B @4"<@9 5 ;) '<5@9 5<2" + ; <
KWK
24" 2 4A 0< 2))))
KW
c : 4 <0 4C : " B< ; < 24A4 "<) @@ : A4" 2 2@ 24
KW
4A 0< 2J5 B< ; 42B5) ! < a : < G " <@@9 4)
KWZ
< <@" 2 4A 0< 2J5 "< ; 5
KWU
$4A B ! "4"<5 422<D<B) 4A" G "? "9< $ A<
KW
@@0<5 45" @40 ; 2" 5* 2) 2- <-4" $4 5
KWY
9< 04@> 4 B 2405) 0 9< 4" 240 : 2@ 0
KW
9< : 2@ 0 B 55 0G<B) <5 5"42@< "9< $ A<)
KWW
9< $ A< 2 % @<) 2@ B4" ' 2"4 2<C0<4 :
9< A ! <> "9< A A<) 9< 9 : @9 2 < 0 : ?)
9< < ; 42 ! "4"<5 42B "9< 9 : @9)
40C< -J5 5@9< ; <) J 9< ' <2@9 $ "<5"42"5
(: "9< 425(: - : <2 "5(42B B<=5)
Z
8)8 42B ! 429<B 2) <-8 :04" 2 6<= 59 = 59 A
?d ! $ 0 " @40 < <@"5 4A 0< 2J5 9 : @9 A 0 @?
0 9< $4A4@? 45 4 C : 0=4 > 0 C< "?)) 0) Y

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9< 24G? 42B "9< 5" 4"<- @ A 5 " 2 <4" "4 2
0 @>4B< "9< ' <2@9 A "5)))))
' 5" A042 "9< 2G45 2 2-042B
942-<5 2 "9< A042 2G45 2))))
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0 9< : 0 -2< 0 " 004))))
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' : "9< B<G<0 A ; <2" "9< 2G45 2 A042)
K
' <2@9 24@" G "?) <05 2 : 0 2)
b K
0 @>4B< <5") 2-0 ! A42 59 <04" 25
KY
%4 = "9 ! A4 2) 4A 0< 2J5 A0425 @942-<B
K
" 59 42B <B0 @<5) 00<2< : G< 4" : 0 2
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<05 2 2 A : 5 : " 00<2< : G<))))
55 <55? 2 "9< %<5" 2B <5))))
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<05 2 00 =5 00<2< : G< C4@> " : A<)
40B< J5 4@" 2 4A< ' 2 5"< <))) 8
G< ; <2"5 00<2< : G< 42B < ; 42B
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2 <B8 40 4 " < 9 2 <)))))))

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8" 4" 25 C<"=<<2 ' 42@< 42B :55 4 !K
:55 42 2G45 2 ' 2042B) : C0< 2 !7Ł4 2 K
2N:<5" 42B @ 2@ 0 4" 2 ' 2042B ( ) KZ
<@" '"9< !A42 59 5 2 - 2 4A 0< 2J5 A0425 KU
04 ; 2 :5" 4) 9< 1 ! < ; C B <B K
:5B4 42B :5" 4) 4A 0< 2J5 B< ; 42B5 2 $:55 4 KY
4A 0< 2J5 -<2< 40 A 5 " 2 ; A4 <B)') K
0 2- <55 : ") 9< 45"< 2 c :<5" 2 KW
4A 0< 2(0<D42B< 42B :5" 4
G< ": <5 " <4" "4 2) <5:0"5 '"9< 2- <55 K
:5"4G:5 ! =<B<2) (55 ' 2042B)'
<G 0:" 2 2 ! =<B<2) CB @4" 2 '"5'4G: /'
< ; 4B ""< $ 2@< ?40 ! =<B ; ") Z
AA <55 2 $:55 4) ' @9"<J5 BB <55<5)
8<@"5 0< 4 J5 4AA<40) $; 5! 44 <B:@4" 2
' :2B4" 2 '"9< 2 G< 5 "? < 0 2 (Y
] 2 * 2 G ; 5 "? <504:) 9< 2 + '
8 04 0? 0 < ! "< 2) 5 5< " A =< W
)G8 0 " @40(<@ 2 ; @ 42B 5 B40 < ; 5)
8 (42B < ; 5) 2 0:<2@< '"9< / 2 -) K
M 0 "4 ? < ; 5) 5< ! 0 94 ; 9 5"
S8 9< < ; B<00<B 4 ; ?) (@40 5<0 - G< 2 ; <2"
S8 9< 2<= ; : 2 @ A40 " <5 Z
8 DA:05 2 ! "< 2) < ; 42 0 "< 4": < U
c :<<2 (: 54 $:55 4) / 2-B ; <5"A940 4
6< ; < 2 %<5"A940 4) 42B :@9? %4 54=
G< 2 ; <2" '"9< 42B :@9? '" 4 54=' Y
2" 45" C<"=<<2 $ 042B 42B < ; 42? W
<5:0"5 4A 0< 2J5 5:A < ; 4@?) Z

$;

% $' K W)

?' , , 0 $ 4 <2< 40 <" <BE 2 "9< < ; 42 ; ?) +

<- 22 2-5 A A:04 <4@" 2 4- B25" 4A 0< ;))) ZK
:5" 42 A <A4 4" 25) 4A 0< 2J5 "9 <4"5)))) (Z
:5" 42 ; " G<5 =4))))) M (S Z
:5" 4 = "9 :" DB0 <5) !9< <5 0G<5 2 =4)))) ZZ
9< 4 ; ? 42B "9< <5 : @<5 ' 2 ; <<))))) ZU
9< :5" 42 4 ; ?)) ( )))) Z
:5" 42 A042) 5" C:" 2 ' <2@9 @<5 M
A<2 2- ; G< ; <2"5) !0 =2<55 '"9< :5" 425 " M Z
9< [4" 5C 2 @4 ; A4 -2)\ C<25C<"- 42B @> ; 90) M) ZW
<A:05< '"9< :5" 425) 4A 0< 2 4" <224))) M 0
J 9< C4""0< 5A< ; UK
<A:05< 4A 0< 2) <@" '"9< C4""0<)))))))))))))))))))))))))))))))))
9< C4""0< %4- 4 ;))))))))))))))))))))))))))))))))

X

$

<B5"4 @< 0? 0) 9< B2 -5 : AA <55<B & """ ; A"5 ! @9 00 42B "9< A : >< ; 5%0@>) UY
< %40@9< <2 <DA<B " 2)))) U
" 59 B 545"< 4" %40@9< <2) $<4@< 2<- " 4" 25 UW
9< $<4@< ! @9 2C 22 &))))

$ X)]

(! # ! & K W KZ

R 6) / #

+ - 2 42B ; A "42@< "9< < 0 2 0< <<) K
2B2 2 < "9< < @42" 0 5"5 42B ""55<42)
9< @ ; ; < @ 40 =4 4-4 25" <4" "4 2)
<A 0< 0 ; ; <! 5 <5 4-4 25" " 59 " 4B<) Z
@" 2 <4" "" ; 2) < < 0 2 <@ << U
9< %4 54= <@ <<) " B" B< 5 2 22< 0
9< 042 < @ < < 5))
AA4 <2" A C4C 0 "? 4A 0< ; "5 5 : @@<55)
<5A 2B<2@? 2 <4" "4 2))) W
4A 0< 2 <5 0G<5 " 422<D 0042B) Y
22<D4" 2 0042B) <4 "9 2 <4" "4 2 YK
2B " 2 " 59 < -2 " 4B<)) . Y
8 42 2 4) ! < a : " B B A5) Y
" 2"4 2<C0<4 : <@ <<5) " <59 422<D4" 25 YZ
9< 5?5"< ; " 4B< 0 @<25<5)) S Y
0 4 : 5<5 " ' <2@9 @ ; ; < @ 40 A 5A< "? Y
<<" 5 : -4 & 2B -) 2B " 25 4A 0< 2)5 5 : @@<55 YY
2B " 2 4 ; C : -2 42B 2 "9< 2 < ; 42?) Y
! = <B<2 42B : 55 4) = 2 1 00 2" 2<2"40 ! ?5"< ; YW
))8) 4A 0< 2)5 <D@<55 G< @ 2 B<2@<)) QQ)
b ! @ 0? 2B< " 59 2 0 : <2@<) 9< 25" : " 2 K
$ 0 @? "9< c : <<2 4A0<5))))
$4 0 ; <2"4 ? B @ : 0" <5) <2" 2@> 42B "9< c : <<2
< ; "9< 25" " : " 2) <4"9 "9< c : <<2 Z
: >< ? 42B "9< 45"< 2 $ =< 5)))) U
9< - G< 2 ; <2" ! <0 ;))))
! <0 ;)5 ; 0 "4 ? < ; 5) <G 0" ! < G 4) Y
: B< ! <0 ;) @@<55 2 49 ; : B)
<4"? : @94 <5") @942 -< 2 : >< ?

$ X)

M ' $!& ! % ^ (& K KZ)

9< ' <2@9 <A<2B<2@ <5) ?))) . $))
! = "a< 042B) ? $ <55 , #

4A 0< 2)5 G <=5 2 - G< 2 ; <2") W
<B 25 ' <2@9 4B ; 2 5" 4" G< 5 : @@<55 WK
< <@"5 "9< 4A 0< 2 @ 5?5"< ; W

4A 0< 2 42B 9> 5< G42"5 9< "40 42 <A : C0 @ W
' : 2B4" 2 "9< "40 42 0 2 - B ; K) WZ
4A 0< 2 5 8 0 @ ? "9< "4 0 8 / 2 - B ; WU
C2A G< ; <2"5 : 2B< "9< @< ? : - <2< W
' <2 B "40? $ <B ; 2" G WY
8<8@ ; " $4 ; 4 " : 4 <"@) W
22<D4" 2 C : 4)) WW
: 5<4 : ? : 2B< ' <2@9 @ 2" (9< $4A40 ! "4"<5 Z
22<D4" 2 "9< $4A40 ! "4"<5 8ZWK
8 "> "9< ; 42 25 : 0"4) 9< / 2 - < ; < &Z
84"< 4A0<5 @@<5 2 6 5<A9 24A4 "< ZW
4A0<5 : " B< "9< - G ; ; ; <2" 6 5<A9 Z Z
6 589 5 A C0< ; 5 42B 25" : @" 25 & Z U
< ; 5 2 "9< <4A 0 "42 > 2 - B ; : 2B< 6 5<A9 Z
: 4" 2 4A0<58 ' <2@9 2 0 : <2@< 2 Z Y
' <2@9 < ; 42? 9< 9<2 59 B<A4 " 88 bb8 Z
425<4" @ B<A4 " ; <2"5 42B : @9? < - Z W
: 2B< : 4" 42B <: - 2 ") ZK
9< > 2 - B ; %<5"A9 0 4) ZKK
% <5"A9 8 : 2B< 6< ; < 24A4 "<) ZK
5 " : 2<5 %<5"A940 4 ' 42> " ZK
9< 42B : @9? ' 42> " : 2B< 40C< - ZKZ
9< 8 - 4A B<A4 " ; <2"5 &) H ZKU
<9 885 ; ! '@ 25@ A" 2 2 <0- : ;) 0042B ZK
00 ; B : 2B< ' <2@9 : 0< &) &) ZKY
9< 0 ? 42 A G 2@<5))))))))))))))))))))))))))))))) ZK
4 ; 2"5 = > 2 00? 4) 9< 0 2 <5 ZKW
' <2@9 @ 0 2 40 A 0 @? 2554 2" (: G< " : < Z
!42 6922 2- : 2B< : 55 ; 2" (: G< " : < Z K
' <2 9 - G< 2 ; <2" 2 !42 ; 2-) Z
! = 2< 8B : 2B< "9< @" <B 4" 2 Z
4A 0< 2 5 B<4 2-5 = "9 ! = a< 42B)
'<4 5 ; 2<D4" 2 9< 2" 2<2"40 !?5"< ; Z U
G< 2 ; <2" "9< ! = 55 <" $: C0 @ = >5 Z
B : @4" 2 A9 0 5 A9? 42B 0 "< 4": <) M

$ X &

$! (% & K KZ)

? % 2 -)) ')) 9 @9<0< $ <55 B< ;
5" ? 2 "9< 2 G< 5 "? D B)

4A 0< 2 5 G <=5 45 " ! A4 2 Z
c : 4 <05 2 "9< ! A42 59 ?40 4 ; 0? Z W
' <2@9 2G45 2 ! A4 2 Z
9< <G 0 : " 2 4 ? : <a) Z K
2"< G " 2 4A 0< 2 Z
CB @4" 2 ' < B 242B 9< 3 4 Z

, ,

4"C 44>' ' "9< !A : :59' 25 : <@" 2') Z Z
9< 2 0 "4 ?' A 5 " 2')' 8) 567
5A@ !< 2J5 ; <45 : <5)' 2@<? 2 5 4"' "B<2< 4' Z
: 4A 2" 5 24 @9' 2' ! <2 0<)))) Z Y
<' @5_Z" : 04" 2' ' 8?0 2 42B' "5 <5 : 0"5)) Z
' 5"' 5 <-< ' ! 4 4- 554)' 6 : 2 "' 2' $ " : -40 Z W
%<00<50<?J5 0402B 8)' 4""0< ' ; < ' ZZ
<' 2G 0 " 4' <2" 4)' ' <2@9' < 2 @< ; <2"5 ZZK
<' <2" 40 6""2"4)' "5 ; 5"4><2' 5" 4"<-? ZZ
<' 2' !A4 2)' 4A 0< 2J5 G @" <5) ZZ
4A 0< 2' 4"' 4B B)' <J5 A0425) ZZZ
<J5 4BG42@< 42B' <" <4"' ZZU
4""0< ' : A24)' <4"9' ' <') ZZ
<5 : 0"5 ' <J5 @4 ; A4 -2' ZZY
' B0 ' ! 4 4- 554)' "9< ' !A42 59' B< <4"5 ZZ
%<00<50<?J5 <" : 2)' ' <2@9' 2G45 2' ' $ " : -40 ZZW
! : 0"' 42B' @")' 4""0< ' <B<00 2') ZU
%<00<50<? B G<5' ! : 0"' : "' ' $ " : -40 ZUK
%<00<50<?J5' 4BG42@<)' 4""0< ' 404G< 4' ZU
! : 0"J5' 4BG42@<)' %<00<50<?J5 <" <4"') ZU
4""0< ' 0 ; 24@ B)' ! <-< ' < 24' ZUZ
4""0<5 ' 0C4' B< 22<5' 42B' @4 04' ZUU
2N : <5"' & 2B40 : 5 4')))) ZU
455<24' 455 : ; <5 "9< @ ; ; 42B)' ! <-< ' 4B a ZUY
ZU
455B24' 2G4B<5' $ " : -40)' 0 2<5' ' 2<5' <B 45 ZUW
<G45"4" 2' ' $ " : -4 (' %<00 2-" 2J5 <" <4"' Z
4""0< ' ""54@)' 4A" : < ' ; C 4' Z K
455B24' 4"' <5 <B 45' 42B' ! 42"4 < ; ' Z
455824J5 <" <4")' <5 : 0"5 ' "9< @4 ; A4 -2' Z
9< "<5' 4"' 4B a)' 4""0< ' 4 54' Z Z
4042"' <5 5"42@< ' 4"40 2 4' Z U
4""0< ' ' : <2"<5' B))' ' 400' ' 0 ; < B4' Z
4""0< ' 0C : < 4)' ! : 0"' <" <5) Z Y
%<00 2-" 2' 4 05' 4"' 4B4 a' 42B' : B4B' B - ' Z
! " : CC 2' ! A42 59' <5 5"42@<)' "5' <5 : 0"5 Z W
4""0< ' ! 4 - 8")' ' 400' ' 40<2@ 4') ZY
%<00 2-" 2' "4><5' : B4B' B - ' 42B' 4B4 a' ZYK
R% <00 28 2' 4BG42@<5' 4-4 25"' 4 ; 2'' ZY
4""0< ' ! 404 ; 42@4)' %<00 2-" 2' 4"' 4B B' ZY
' <2@9' @ 2@<2" 4" 2)' %<00 2-" 2' 4 05' 4"' : - 5' ZYZ
%<00 2-" 2' <" <5)' <5 : 0"5 ' "9< @4 ; A4 -2' ZYU
; A G< ; <2"' 2' 2-0 ! A42 59' A 5A<@"5 ZY
%<00 2-" 2J5 4BG42@<& 6 5<A9J5 <" <4"' ZYY
4""0< ' "" 4)' 6 5<A9' 0<4G<5' ! A4 2' ZY
9< =4 ' 2' <45"< 2' ! A4 2')))) ZYW
4""0<5 ' "9< $? <2<<5)' %<00 2-" 2' <2"< 5 ' 42@< Z
4""0<5 ' "9< G< 42B' ' "9<a' Z K
4""0< ' : 0 : 5<)' <5 : 0"5 ' "9< =4 Z

' ' !' ' "

)' 6 ! ! ' ' ; ' &' ' ' ! ' f' K K)

?' " ' $ 1 ' $ <55 ' ' 2 G< 540 5" ?'
& 2' "9< ; A< 40 2 G< 5 0?' R ' B<554)

$! !0
0<D42B< J5' 4<@<5B 2)' 5' 5"' @ : 25<00 5')' Z
B 4 4<"< ' ' 0<D42B< ' K)' @94<0 ! A<2250> ')'
:55 42' < -2' A 0 @?)' 9< =4 ' = "9' : <<?)' Z
9< $ 0 59' 8<5" 2)' ' <" 2' = "9' 4A"8 2')' Z
$ <A4 4" 25' ' =4)' ' 400 ' ! A< <25> ' & Z g
! " <2 - 8' 42B' @ 2"A " " 2' ' "9<' 42B' ; ?')' Z
' < ; 8' B< @ <2@ <5)' 9<' :55 42' @<5' Z W
:55 42' A042' ' @4 ; A4 : -2)' 55 2-' ' "9<' < ; <2' ZWW
4A 0< 2' 4"' 024)' 9<' :55 42' <" <4"') ZWK'
:55 42' @ 2@ ; " 4" 2' 4"' ! ; 0<25>' 8 '
4A": < ' ! ; 0<25>)' :55 42' <" <4"' @ 2" 2 : <B' ZW '
: " : 5 ' "4><5 "9<' @ ; ; 42B')))) ZWZ'
4'"0 ' ' B 2 ')')' &)') ZW
@@ : A4" 2' ' 5@ 0 8)' : 2 2 -' ' "9<' B"?' ZW
4A 0< 2' 4"' 5@ =)' <5 0 : " 2' ' 0<D42B< ')' ZWY
5@ =' <G4@ : 4"<B)' 2B " 2' ' "9<' ' <2 "' 4 ; ?' ZW
4A 0< 2I5' @9 @<' ' : "<)' AA 4@9' ' = 2"< ' ZWW
9<' <" <4"' " ' ! ; 0<25>)' ' <2@9' 0 55<5' '
/ : " : 5 J5' A : 5 : "' 4G< 5 " : 4" 2' ' "9<' ' <2 "' K'
$ <A4 4" 25' C ' @ 55 2-' "9<' < <" 24' '
9<' @ 55 2-' ' "9<' < <a 24')))) '
4A 0< 2' - <5' " ' $4 5)' <5" : @" ; ' ' 9 5' 4 ; ?' '
' <2@9' 42B' :55 42' 0 55<5)' 4 : 5<5' ' "9<' B 545"<

$ ' X)

' % ' '' (& K K Z)

?' 6@" 5' 3 ' $A"" / 22 & @9 G 4"9& ; < 0?
$ <55 ' ' 5" ?' 2' "9<' 2 G< 5 "?' ' 45<0)

<@"' ' "9<' <" <4"' ; ' 5@ =' '
2"< 24" 240 @ 2B " 25' 4 "< ' "9<' <" <4"') Y
$ 5 " 2' ' 4A 0< 2)' 9<' ' <2@9' 4 ; ?')
9<' :55 42' 4 ; ?)' 2B " 2' 42B' < "5' ' $: 55 4' W
/ 2-' ' <B< @>' % 00 4 ;)' ; 2-' ' $: 55 4' K '
$ 5 " 25' ' "9<' 4 ; <5)' A<2 2-' ' "9<' @4 ; A4 -2' KK'
' <2@9' <" < ; <2"' 9<' / 2-' 0<4G<5' < 0 2' K
<4"?' ' / 40 5@9)' G< ; <2"5' ' # >') K
: -<2<' 400 5' 94@>' " ' "9<' 0C<'))) KZ'
< <4"' ' 42B)' : -<2<' 4 05 " ' <"4><' < 0 2 K

$ c^

AA "22 " <5 0 5"# C?' "9<' 00 <5&' 4A 0< 2J5' A0425' UK
9<' 08 <2@9' 4BG42@<'J' 4""0<' N 8 <55 5@9<2') KY
<' 00 <5' <" <' : A 2' 4 : "a<2' &' ') UK
4""0<' ' 42"a<2 UKW
2B<B5 G<' - 9" 2 -'J' ; 5" @<' ' '045= "a') U '
2B " 2' ' "9<' @ ; C4"42"5'J' "" " : B<' ' : 5" 4' K
: 5" 4' 25' "9<' "B0 42@<' 09< ' @<5' 42B' hB425' U
4A 0< 2J5' A0425'J' !@9 4 a<2C< -J5' 4BG42@<' U
4 ; A4 -2' 2' ! 0<B4'J' 4""0<' ' 8 <' / 4"aC4@9' U Z'
! 0<5 4' <<B'J' < ; 4B ""<' 42B' "9<' 4 ; ?' ' "9<' 2 "9'
4""0<' ' 55 <<" ; 2' 4A 0< 2' 4"# <5B ; ' 'J' U
4""0<' ' <5B<2'J' <" <4"# ' "9<' 00 <5') U Y
9<' 0 : 5B425' 4"# ' <B<2'J' 4""0<' / : 0 ; ' U
4A 0< 2J5' 9<5 "4" 2'J' 4""0<' ' <22<= "a' U W
" C""8' 5B4"<B'J' 4A@B< 2' <" : 25' " ' <5B<2'
0 : @9< ' @ 55<5' "9<' eK 8' & 'J' 'J' 'J') U K
4AB< ; ' @ 2@<2" 4"<5' 2' (< Aa -' & U
!0 =2<55' ' !@9=4 ^<2C< -J5' 8G42@<' 'J' 'J') U
B ; 24 ?' <2-4-< ; <2"5'J' 5A 5 " 25' ' @<5' U Z'
4""0<' ' (< Aa -.' 5"# B4?'J' 00 <B' 4BG42@<' @9<@><' U U'
; <9' @ 22"< 4""4 >' 2 5'J' 2B<@ 5 G<' <5 : 0"5' 'J' U '
0 : @9< ' 4"# >< 2'J' ' B4?J5' A4 : 5<' 'J') Y
4""0<' ' (< Aa -.' "9 B' B4?'J' 0 9<' 400 <B' 4""4@>' U
(9<' ' <2@9' B G<2' 2' : A 2' (< Aa -') U W
4""0<' ' (< AB-.'M : "9' B4?'J' ' <2@9' <" <4"# 'J' UZ
<45 25' ' 4A 0< 2J5' : 0 : A' 'J' 'J') UZK
<=5' ' "9<' 00 <5'J' <- " 4" 25' 4"# ' 42> "# 'J' UZ
5" C : " 2' ' "9<' 00 <5'J' 4A 0< 2J5' B @ : 0" <5' UZ
2G45 2' ' ' 42@<'J' 0 @9< ' 5' 4BG42@< ' ZZ
4A 0< 2' 4""4@>5' 0 : @9< 'J' 4""0<' ' (<' "9 < <' ZU'
4A 0< 2J5' 4BG42@<'J' 2 < <2@<J4"# 9 " 00A2' UZ
4A 0< 2' C <4>5' : A' "9<' 4 ; ?' ' ! 0<5 4') ZY
4 : 5<5' ' "9<' B< <4"# ' 0 : @9< 'J' <' <@ G< 5' 9 ; 5<0' Z
!@9=4 a<2C< -J5' <" <4"'J' 0 : @9< ' 4@"5' 2B<A<2B<2"0? UZW
<4"?' ' 94 : ; 2"'J' !@9=4 a<2C< -' 4BG42@<5' 'J' UU
0 : @9< ' < 2 @<B'J' 4""0<' ' (4 2' 'J' 'J') UUK'
9<' 2 < <2@<' @0 5<B'J' 4A 0< 2J5' ; 42@< : G <5') U
9<' ; 4 @9' 2' $4 5'J' ' -9" 2 -' : "5 B<' "9<' @ "?'J' UU
4A 0< 2' 4"# ' 2"4 2<C0<4 : 'J' ! : <2B< ' ' $4 5' UUZ

$ ' X)

0 ' ' ! ' !0 & K KZ U'J'

?' 'J' 'J' ( )'J' $ '

2" ?' ' "9<' 400 <5' 2" ' $4 5')))) U '
0<D42B< ' K 42B' 400<? 42B)))))))))))))))))))))))))))))))))) UU
4A 0< 2' 4"# ' 2"4 2<C0<4 :))))))))))))))))))))))))))))))))) UY
4A 0< 2J5' 4CB @4" 2'J' c : <5" 2' ' "9<' <-<2@?' U
<4"?' ' ' 2"4 2<C0<4 : 'J' 9<' <5" 4" 2') UW

K

8 9

!'' A:04'' 25 ' ''9< !<24''<) <'': 2' ' 25 <: U
9<b $ G 5 240 G< ; ; <2'') (: 5) X & U K
9< <'': 2' ' (: 5' X) U
9< 94 ''<)))))))))))))))))))))))))))))))))))))) & U
9< <4''? ' $<4@<))))))))))))))))))))))))))))))))))

$ 2

B<248 <"@ 9< (<-4" 25))))
9< = ! @ 0 <5) : 4") 40"4 Z
!A4 2 42B $ ": -40. 0 G<2 4) 9< <"9< 042B5 U
& 2<=< <"9< 04NB4 !"4"<) !@42B 24G 4))
<2 ; 4 >; ; B !=<B<2) 9< < ; 42 @ 25" ":" 2 Y
' 5" 2B< 2 "< @ 2@<A" 25)))))))))))))))))))))))))))))))))) W
4 0? B 4 "5 4 25" ":" 2)))) 0
9< =<0G< " @0<5) C5" :@" 2 KK
9< 5 "" 2 -< "9< < ; 42 ; ; ""<< 5:5A<2B<B KK
2A 4@" @ ; 0< 5@9< ; <5) %<55<2C< -J5 B 4 " K
<0 C<"4" :5 <5: ; <B) 9< !"4" 5" @40 ; ; ""<< K
<B4 4" 2 45 " "9< 4C 0 " ; "9< 504G< " 4B< KZ
G< 5) $ <@<B<2@<) <5:0"5 " ' <C :4 ?% K K KU

$ /' XX)

!] K K)

?' $ <55 2 -

<@ 25" ; @ " 2 "9< 2 5" ?')
4A 0< 2 <5" <B " A =<')
' :" 0< 28 " 4" 25) 4A 0< 2J5 4 ; ?')
0 "4 ?' ; <45: <5 4A 0< 2))
9< 25" ":" 2 42B "9< " : 4"J5 @4 ; A4 -2 42B B< <4"
9< 400 <B " @<5) %<00 2-" 2J5 4 ; ?')
0 @9< J5 4 ; ?) 4A 0< 2J5 &8425
4A 0< 2J5 ; 0 "4 ?' 4 42-< ; <2"5)
' 5" @ 00 5 2 = "9 "9< 8:55: ; 5)
%<00 2-" 2J5 A 5 " 2) 5 "4 B?' @ 2@<2" 4" 2
%<00 2-" 2 42B 0:@9<) 4""0< (-2?
$:55 42 <" < ; <2" " %4G <
4""0< c:4" < 45))))
9< $:55 42 <" <4") :@9?' 2 A: 5: "
%<00 2-" 2 <" <5 'RH 2" !" 6<42)
9< " 59 A 5 " 2))))
4A 0< 2J5 C4""0< 4 4?)
4A 0< 2J5 @ 2 B<2@<) J 0 2J5 4BG42@<
J 0 2 <A:05<B) AA 4@9 "9< $:55 425
0 9< @4G40 ?' @94 -<5
!0 =2<55 :0 =J5 4BG42@<
<?J5 4""4@>) (4 4?< !4 2"< "4><2
<A:05< "9< ; A< 40 :4 B
:" "9< ' <2@9 4 ; ?')
<5A 25 C 0 "?' :@9?')
:@9?J5 <" <4") 4A 0< 2 4" $4 5
!<@ 2B 4CB @4" 2 4A 0< 2
4A 0< 2J5 0 -9") BG42@< "9< 00 <5
9< !<@ 2B <5" 4" 2

! !

! ! ' ' & (K KU

?) %) #

$

<@" B 4A 0< 2J5 <": 2)))) Z
<= <4" 00 42@< 4A B 5<""0< ; <2"5 ZY
<A078 BQ : 4") 9< < ; 42 @ 25" ": " 2 Z
' 24 48< <2@<50 ; " 9< ' <B< A0 ") ZW
9 <' <B< 40 @" 4@@<A"<B
B A" 2 " 9< ' <B840 5 ; B "9< _8240 @" UK
$ G " 25 " 9< ' 2"B @") "5 A 4 A ; B U
<4" ; <2" " ' 42@<)) U
<4" "4 2 42B "9< ' 240 @") UZ
9< <"9< 042B5) $ 042B) UU
$ 042B) ! 4D 2?)))) U
$:55 42 -" 25) 42 G< UY
4G4 " 4) <55< 4 ; 5"4B") ' 42> " U
9< < ; 42 @ 2 <B< 4" 2 UW
:5" 42 -4 25))))
"40?) 254" 5 <B @04 ; 5 K
G< 24G -4" 2) 9< 5"4G< " 4B<
$4A40 A "<4") ! = 55 2<: " 40 "?)
8 " 8 25 A<4@< = " " 42@<) <= 2 "5 Z
9< 0? 00 42@< U
] 9< !<@ 2B $<4@< $4 5
GZ <2< 40 <5 :0"5 "9< 2- <55 <224 Y
! 9 "@ ; 2-5 "9< <5 :0"5 "9< 2- <55
; c :<4" 25 A455<B C? 0< " G<) W
0 F7 <A <5<2"4" G< 25" ": " 25) Y
@" : 40 4@9 <G< ; <2"5 "9< 2- <55 YK

&

(& KY8K KU)

?) $) $))&)$)& 04"< !@9 04 2 "?
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<A <55 G< ; <45 : <5) 40 " 2 %"9 $ "042B)))) YZ
4 4-< "9< $ 2@< %40<5) <45 2 00)))) YU
' 242@ 40 ; <45 : <5) % "9B 4=40 "9< %9 -5)))) Y
%4 0 425 42B "4D<5) $<240 0 4 = 5)%
4"9 0 @ ; 42@ A4" 2) $ "" <5 - 25)UY
b2 < / 2-J5 002<55) BB 2-" 2 $; < 2 5"<)) M M YW
$ ""J5 <04" 25 = "9 BB 2-" 2)
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2 5"< 40 @9 4 2 8) <2<=40 "9< = 4)

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$ ""' <": 25 " ' A =<) 9< 2<= 2 5" ?')
' 4 ' ' <0G 00C) $ ""]5 045"' 5A<<@9)))) Z
<4"9 ' $ "") ' D $; < ! 2 5"< ')))) U
<4"9 ' ' D) <2G < <5+25))))
%<4>2<55 ' "9< %9 -5) 9< - <4"' <G <=5) Y
<2"94 ; ' ": B C9<" (' 9< $ "042B 2 5" ?')
$ "042B <5 -25)0 ' 242@<) ! ' ' 42@ 5 : B<"" W J
9< <-<2@?) $< @<G400 5 B<4"9) (G< A 0 $ < ; < ') W
$ ' <0 <) 2@0 5 : <5) ' 4@" ?' @" WK
<2< 40 B 5" <55) (: BB "<5' B : @4" 2) <C" 5 W
M <042B) 8 : 5' - <G 4 2 @ < 5))))))))))))))))))))))))))))))))) W
% 0 5' 2< 42B' 4""42) 9< 59' 4"9 0 @5') WZ
4"9 0 @' <0 < ') = 2-' B 54 <@" 2') M ' M W ' &
59' 08 504" 2) ! <@ <"' 5 @ <" <5')))) W
$4 0 4 ; <2"4 ?' < ;) ' "a= 00 4 ; ' @< ?) WY0 M
' "a= 4 ;]5 A @<<B 2 -5) 9< 4" 0 @ c : <5" 2 W
<@400 ' ' "! % 0 " 2) "5' @4 : 5<5' 42B' < <@" WW
42 -< ! @ <" <5) 25 : <@" 2' @"'))) F Y
4""42' <" <5) <C<00 2' " ; B' 5 : AA <55 2' &)
2=400 5) ' <2@9' 042B 2 -5) <4"9' ' 2<) Y
$ <@"' ' 2 2) BG< 5< G <=5')))) Y
<"9 B5' ' A< 5 : 45 2) (45"' 59' $4 0 4 ; <2"') Y Z
9< @"' ' "6 : 2) - : ; <2"5 ' 42B' 4-4 25"') Y
<5 : 0"5 ' "9< 2 2) ; "" <"]5 0<C< 2') Y
' 4 0 : < 42B' B<4"9' ' 92 ; <") <2 <0] 22< Y Y
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M ' ! ' $ & KY K K)

2B 4' 42B' <?0 2) ?' "9< <G) %)) / ' ' ' <00 =' 2B' : " ' ' ! "' 6 92 05' 00<-<& D B)

0 < 0 2 <5) ?')) " '))& < "' $ <55 ' ' ' 0 2 40 5" ?' 2' "9< 2 G< 5 "?' ' D B)

9< = > ' %4 <2' 45" 2 -5'))))))) ' Y W
2B 42' @ 2B " 25) AA 2" ; <2"' ' 2=400 5')))) ' YK
(<-40 42B' "9< ' < ; 5' ' 2=400 5')))) ' YKK
9< $< ; 42<2"' ! <""0< ; <2"' ' <2 - 40)))))))))))))))))))))))))))))))))

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& <4"? = "9 2B9 CW 4 4"94 @ 2 <B< 4@? & Y U
9< 4 4 94 %4 $< <4" ' ! 2B9 4 Y
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< ; 5 2 : B @4" : <& @ G 0 5< G @<& 42B 242@< Y
c : <5" 2 8 " 4B< i 08<00<50<? <" <5 Y W
<- " 4" 25 = "9 094 42B 42 "! 2 - 9 Y
(B 2" 2 @< : " 2? 4" <00 < Y K
55 25 " + 942 5"B2 42B $< 5 4 : >94 %4 Y
<2<=40 "9< 94 "5 <?0 2 Y
DA<B " 2 " -?A" ! : ; ; 4 ? "9< A< B Y Z
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4A"4 2 $9 00 A 4 0? 5" : - - 0<5 "9< @ 0 2? Y Y
< ; 5 / 2 - 4 : B 2i5 <DA<B " 2 Y
0 - 9 42B 4@N : 4 < $ B - <55 "9< @ 0 2? Y W
! <""0< ; <2"5 2 : 5" 40 4 ! "4"< 424B4) YZ
' <2@9 A A : 04" 2 4A4B4 ' 5" G< 2 5 YZK
G< 2 ; <2" 4 0<" 2 ! "4"< "9< 04 =) YZ
9< c : <C<@ @" 9< 6" : "<B ; A < (?40 5"5) YZ
9< 25" " : " 240 @" &) YZZ
94 4@"< "9< ; 4B 42 (<- 504" : <) YZU
48 42B $ <G 5" @" 0" <5 % - G< 2 ; <2" 424B 42 B<G<0 A ; <2" 8< 40 B<5A ; B ; @? YZY
DA0 4" 2 "9< %<5" 9< %<5" 2B <5 YZ
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" 59 @ 2N : <5"5) G< 2 ; <2" 2 %<5" 2B <5 Y
! < 4 (< 2< 9< 504G< " 4B< 40"4
%4 = "9 4A 0< 2& < @@ A4" 2 "9< 4A< Y
: <2 5 ? <5 G< 2 ; <2" "9< 4A< 0) M Y
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9< 4CB @4" 2 4A 0< 2)))))
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42:5@ A" ! : @<5 '"9< 5" ?' '"9< 2

5:04"< 42B "9< ; A <)) Y Y 3

( ) ' 42@< G ; B< < 25:04"< 42B "9< ; A <) Y W 3 W

2) ! <@")) 3 0 < B" @ $ =< 5) Y 8 3

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( ) =' A4BB@4" 2' ' : A<(' 42@< 42B 9<

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(9< B<5))))) 3 W

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2) ' 9< ; ; 42B '"9< !<4)) (K 3

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X) 9< <A<2B<2@ <5)))) Z 3 4E

X) A<2 25:04 ' %4 ')))) UK 3

X) * 9< 2G45 2' :55 4') UZ 3 Y

X (<' %4 ' ' 0 9< 4" " ; (K K Z U 3 Y

X 2 (' 9< ' 5"' <5" 4" 2

X 0X (9< 2- <55 ' <224') W 3 YU

X X) 9< :2B <B' 4?5 Y 3 Y

X X) <4"' "4 2' 42B B 8 B (KYW K KU' Y 3

X X 2) ' 9< " 59' ; A < ') 3 WK

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8)

AA) K' 5NN)(KY(K) < ' 6 %=%' ' ! <?<5)

AA) (ZW((KZ) < ' 4>@9< < ' ' 4>@9< <)

AA) (Z (Z Y) < ' ; <0B"' ' ; <0")

A) Y ((' K) (B' #4 ; :"9' C<@4 ; < 4 N:5 ' < " B' 2' KYWZ)

AA) K (K (KY( ) < ' ' 42@5 ' ' ' 42@5)

$' K) K ' ; 0C """ ;) < ' ; 424' ' (4' ; 424)

$' YK(K)) < ' BA0 "a' ' <A0 "a)

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$' ZW ( ) Z) < ' ' 42B' ' ' 42")

$' 6 /# K) W' ;' C """ ;) < ' C0<' ' C0B)

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8 ! (KYWW K Z)

% $ 04= : ; 4 < j< G B 4j 4 25" ": " 2 ; G< ; C< KK
" <@< ; C< KU&KYWW 9< 25:05 "9< 082@ <A:C0@&\! 8 8
8 8 < :@ 5& 42B 8 24A4 "<) 68 ; <B 42 [< D 8 " G< 8888A04 ; ! !4 / 4
; G<5"<B020 8 8 "9< <@" ?8 \ C<?8G< ; <B @ <@" "
GB ?F 4 "9 <<2 ? 8 <N: 40A =< 5& 24A4 "< 400> ; -2 C -9< "942
69 5 @ 00<4-: <5F 42B "9<?= < " 455: ; < "9< A <5 B<2@? 2 ": 2 42B 2
40A94C<" @40 B< 9:5 8 < $ G 5 240 25"B4"< = = 2 "9 2 - RB5<&
" <2A0 ? :04 B5 <DA <55 2& "9 8 4 00 <8 #) <B:@<8 &" ") 9""8
; < ; C< 5)\ 9< 25:05 < 8 5<B "9< !0 2 5" ?F "9 8 <"4 2<B GH
8 ; C4@< <5 45 2 5"< 6:5" @<& 42B ' :@%45 9 8" ; $ 0 @<F
"9<? @8A ; 2C B 841 2 ")" "9< ; 5C? R 60842@<8808 88 6"94"
%4 & 42B 400<? 42B " "94" < -2 6 4 5) S 4 <" 4@"<B 45
!<@ <"4 ? ")"C< 25:04"<) "B<G 0G<B 2 "9< "= 2"k22<B 4"< ;
; 55 25& 8 8 "9< :2@ 0 @ ' G< :2B <B 42B 8 < !E ; @ 0) A "9< _
2@ <2"5& " < ; C B? 2 04=5 W8"9< <5 0:" 25 5:B C< <"9< ; B8 2 "B?
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4Z : 8 2 " ; 4""< 5 A 0 <H 0<- B4" 2& 42B B242@<) \ 9<5< C B <5 ; <"
2 "9< ; < ; <<" 2 - A04@<5 "9< "= 455< ; C0 <5 42B 9<0B <- B5 ;
5 "" 2-5&" =9 @9 "9< A:C0@ =< < 2 "4B ; ""<B) !:@9 =45 "9< -42 54
" ; "9< A G 5 240@ 25:04 - G< 2 ; <2") 8
9< 25:05 4 ; <B 5 0<0? 4" 4G B 2 - B 5": C42@<5F 42B& 45 "9<? =< <
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2B<A<2B<2"& "9< AB @? = < "9< 4AA<4 42@< 0 C< "8 ;) ? "9<
A @04 ; 4" 2 G< ; C< K & A =9 @9 "9< 25" 1 5= < [" C<L
4 "9 :0 " 89< <A:C0@& 2< 42B 2B G 5 C0<& :2B<B 2 <N:40 "?&
0 C< "?& 42B "9< <A "<5 ; "4" G< 5?5"< ; &\ "9<? <455: <B "9< <A:C0@425)
2 9< "9< 942B "9<?A @: <B G< ; C< K E "9< <A 8 "9<
<G 0:" 24 ? "4 = 5" 4-< Z) <55 B & ?<4 & 6:0? K &
KYWW =9 @9 "9 <4B<B "9< <04" G<5 ! # ? 2 C0< 8 42B
A< 5 25 2 " :50? AA 5<B " "9< <G 0:" 2) < G< & "9<
6 94G 2-C< ; -42 5<B = "9 4 G <= " "9=4 " 2- "9< A0425 "9<

) _I)) X)) K)

64@ C 2 8 5 ; < 5 D"?@ " a<25& @ 25A @ : :5 "9< 4BG42@<B G <=5& =< <
* "B8 ; <B 2 08 G< ; C< KY& 5 ; < " 85A 8 " 2 " ' <2@9 : 424&
5 ; < " B<"<2" 2 2 "9< 94 <2"< 8 8 <: < : 2B< "9< C5< G4" 2
"9< A 0 @<) 2 " D<8<2B* 9 =<G< & 2 2 < =45 A : 2 59<B "9< 5<2"<2@<
" 425A "4" 2 =45 @ ; ; :"<B "B<"<2" 2 A G< ; C< 42B "9<
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<20 -9"<2 @ " a<25& 2 C00 A4 "5 C< 00<A : C0 @ 45 " "9< @4 : 5<5 42B "9<
" : < C <@" & "9< " 4254@" 25 K 42B KW : ; 4 <&\ "9< 25 : 05&
85<2 B<084"<5 2" "9< B<A4 " ; <2"5& 2< <4@9 9< ZR ; 0 "4 ?
B 5"4 @"5& 9<5< B<0<-4"<5 B 5A0 4C<B 5 : @9 B 0 ! @ 405)45 =< < 9 5" 0< :
: 2B<5< G 2-& C : " "9< = 5< <D< @ 5<B 2 <D<@ : " G< 4 : "9 "?) ' 2400?& 2
" 8 B4? "9< 045 "" 2- "9< ; ; 55 2< 5 A455<B 4
&04= < ; A =< 2- "9< G< 2 ; <2 " 4 : "9 5< "9< <": 2 " ' 42@<& '
<G< ?A 5@ 08 A< 5 2 =9 94B C<<2 @ 2B<2A <B C? 24 ; < " B<A "4
L" 2 = "9 : " 40 42B C? 4 5 9A0< 4@ "9< (<804 " : <)\
: " "=45 2 " <2 : -9 " >><<A A : C0 @ A 2 2 N : <"F "9< G< 2m
; <2 =45 @ 2 2"<B C? =4 " : 2B5) "5 54 B ; 4"& =9 ; 4 : B 2
N 9 G< "9< 9 2 5" ? ' 242@<& 2 " ; <"942 K Y& 42@5 8)j8 E
&& 2 <459 < ; 4 2<B ; "9< " <45 : ?) 4 : B 20 9 =<G< & 94B = ><B 2 9<
' 242@< <A4 " ; <2 5 2@< 9 5 2 2 < 8 = ? <4 9< =45 C ; 2 KYU E
S 42B 9 5 5> 00& <DA< <2@<& 9 2<5"?& 2B : 5" ?& 42B 4B4A"4C 0 "? 5<@ : <B
S 9 ; "9< A 55<55 2 9 5 A " 0 ; "0 K KZ) < @ 2" G<B 2 "9<
5" A04@<B " A G B< ; ; <B 4"< 2<@<55 " <5) 2 @ 2 : 2@" 2 = "9
24A4 "< 9< C"4 2<B G< ; C< ZE ; 8 ? 4 2 @< ; "9< $4 5
80 80 < 584 B 5""A 8< ; <2"<B " C? 42 <D" 4 B 24 ?6 1 ""< ?F 4" "9< 54 ; <
" ; < 9< < -42 5<B : B"9 4 ; 45"< 942B "9< 4B ; 2 5" 4" 2& "9< B <@"
"4 8 & =9 @9 "9<2 ; <B "9< A 2@ A40 <5 : @< "9< ! "<F 9< 04= "
G< 88 @ <4"<B 2 8 9 B<A4 " ; ; "42 @< "9< @ 00<@" 2 " <
B <@" " D<5& : 2B< "9< @ 2" 0 "9< 2 5" ? " ' 242@<) & 9< 4B ; 2 5m
" 4" 2 "9 : 5 @ <4"8 5A<<B 0? ?0 A<B : " "9< <2 ; : 5 4 <4 5 0< " C? "9<
4 0 @40 @ 405 "9< <G 0 : " 2 2 <-4 B " "9<0B 4 = 2- : A "4D 005
S 9< @ : <2" A @< - G< 2 ; <2" ; ; : " <5 @ ! %' 7 0] E ; 4 >5
$ "99 ; A G< ; <2" < <@"<B) " 94B 400<2 " Y 4A@5 2 KYWWF C : " "9<
A @< 5< 5"<4B 0? 4 "< : ; 4 <& 42B <4@9<B ZZ 42@5 2 K)
9 < = 8 " "9< = > A4@ B@4" C2 94B C8F ; C< < K 4 ; 4 <&
42B A @<<B<B& 4" 5"& 2B<A<2B<2"0? "9< A 0 " @40 @98 -<5 =9 @9 94B
@@ : ; 2 $4 5) 2 %"A ! ; B 48 2 "4><2 : A 4 ; 5 2 KYWW)
H 9< ?40 5" @<5 =< < B G B<B $,123 5 D A 2@ 8 C B <5) ! : a4 ; <"
42B B0 : " @94 ; A =< < 2 (=< $ " : 42B "9< ; B<<F 9B" 00 2 42B
B 2B -2< @ ; ; 42B<B 2 2 : 4-4 25" 42"<5F : ; 2" 2 4 2<
><A" =4"@9 2 (< 425F (4 $ BG404?< 04?2 AA< "4 ; ? : 2B
' : -8 <5F 2 "9< C 942& < -<5 4B : B400 4?2 <4 4 ; <5F =9 0<
2 ; 42B? " 42B _8 : 504 " 94B @4 <B 2 "9< @4 ; A4 -2 = "9 : "
42? - <4" 5 : @@<55& "9 : -9 = "9 : " B 545"<) % "9 4 G <= " " <5 5" 2-
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2-042B\ 45 < @<5 A< ; " ; - 2 "9< =<5"< 2& B<A4 " ; <2"& =< ; @400 8 " -<2< 40 B8 G 00<) 9< @9 @< =45 42 <D@<00<2"# 2<) 0UJ K :5 0< 94B C<<2 " <) <2B 42B "9< @9 < 455 5"42"# @9< B: 2-"9< 5"# A4@ @4" 2 C "9< =<5"& 42B 94B 4 "9 : -9 >2 =0<B-< "9< ; ; 42B @ 2B " 25 " C< B<40"# = "9& 42B "9< C<5"# =4? B<40 2-= "9 "9< ;) < D<B 9 5 9<4BHN:4 "< 5 4"# 2-< 4 28 AG< C<)! 0 8&& 42B& 25"8)88 -9" 2-& A<2<B 2<- " 4" 25)) 5" 0 " <5 =< <5:5A<2B<B FL 42B "9<D 5" 2-4 ; 5" @< =45 2 ; <BC? 4 A @04 ; 4" B8 :G 00< 2 G< ; C< #) 9< ?40 5"# @9 < < 54" 5 <B 49 " "9< A4@ @ 2"<2 " 25 "9< <2< 40& ; <"# @ 25:0"4" 2 4"# $:42@< 2 <@< ; C< W)i 9< " B 2-5 =9 @9 = ; < <@< G<B "9< -<2< 40 @ : 5< "9< =4 G"< < 4 ; <2@ : 4- 2-F 42B 25 <: "9< ; "< BJ " 5& C "9< "9<$ / 2-E& =9 5< A <5<2@< =45 <DA<@"<B& B 2 "# 4AA<4) 8 9< ; << " 2-"9< < < 40 ; 5"# :242 ; :50? B<@04 <B A<4@<) 9< 40 ; 5" @ =45 <-204"<BI49B <"< B<B " 64 :4 ? K&K 1 F 4 A042 4 -<2< 40 A4@ 5@4" 2 =45 5:C ; ""<B " BJ 8 :G < 2 <@< ; C< F 42B B0 2B -28 =45 B<A:"<B " B 5@:55 "5 " ; 5 = "9 "9< 4:"9 " <5 H $4 5) 8 V] "# =45 2 = 2<@<554 ? ") B<"< ; 2< "9< ; C - G< 2 ; <2") 9< 04=P QKW 84 ; K 8 2 "# 4C 59<B "9<) <@" 400 25" ":"98 b60 < (<- 504" G< B? ; < <0?J 5" B 4B : 2<B " ' <C :8 & K 42B0=45 08 B0?C :2B $4 5 C4"# R<"< ; "9< C:0B 2-5 400 ""<B " ")\ "# 5 " :<"94"# "9< "= 2"< ; <B 4"< 0<- 504" G< @ ; ; 55 25 =< < [@94 -<0 :B"9 "9< "45> ; "B4" 2-"9< 2<@<554 ? -42 @ @942-< 2 "9< 25" ":" 2\F 42B ; "9 5 ; 4""< 2 " 4" G<& <B2B ?B"9Q ; < ;) 8 8 < D8:" G< ""52%> ; 2:5 2 ; -9"# [04?F 08 < "9< ; "58G<G < 2 8 ; 4""< \F Q"<"# "9< < =45&2) N:<5" [4& B< 2 "< ; B 8084"@ ? A A@80\ 8 : 5 "9< ; <2 68 ; 4 < "9 ; 25BG<5 7 4B ; ""8 "9 8 "9< (<- 504" ?< B?& ; ; <B 4"<0? 2 "5 <455< ; C0 2-& 59 :0B& "5 =2 4:"9 4 "?&@42?"9 :8 "9< <G 5 8 < < ; <B] 25" ":" 2 "9 5 b=45 "9< G< ? <2B =9 @9 "# 94B C<<2 A: -<B)) :"# " 8 "9 2-5 <00 :"# "9< = 5<F 42B " < ; 5"# ; A "" ; "# =R ;> "9< 9 G 240 25:04"<" 45 "9< 4 ; 2- 4 2<= 25" ":" 2) &) J 4@9 "9<8 2"<2284"< ; ; 55 5 4AA 2"<B 4 ['5<@" 2 \ P" & <D4 ; 2< A A 5405b 04" -" "9<8 25" ":" 2F 42B "9< 5<@" 25 @ 08 5: "<B ! <?<5) "9 2- @ :0B C< ; ; < 24": 40& 5 2 8 ; 1 < C<- 22 2- "9< <G 0:" 2 ! 86 !894BQ<2 ?<B "9<b <A:"4" 2 4 A9 0 8A9< 42B 4 A " 8 "9 8<) 42? 5 A9 45<5 94B 0 G 8 9< =45& <G<2 ; < "942 24A4 "<& "9< 0<8< 8 < ; <2 : ; 4 <& =9 94B 4AA 2"<B 9 ; " " < $ G 5 240 25:04"<) "9 9 5 A4!"# 4 8 9 5 A <5<2"# ; 4 ><B 9 ; :"# 45 "9< 4@0< " C< @ 25:0"<B)8) 8 <4 0? 45 G< ; C< KK 9< 94B C<-:2 " B 5@0 5<&9 5 A 2 25 2 "9<5:C <@"# 4 25" ":" 2& 9 5 @ 2 B42"# C< 2- :04? B< 04 <: " <& 4 ; ; 2C " *' @ 25" ":" 240 5<@" 2 "9< 2"< ; <B 4"< ; ; 55 2 "9< ' G< :2B <B) ! <? 4 C<-42 = "9 4A9 5 ; 5 88 :B< B< ; @ 4@? 5b42 4C5 ; B "?)b "# =45 2<@<554 ? " < < < " 8 4 8 ") $; ["95

No machinery is provided for filling vacancies in the Legislative Body and the Tribunate. True, the Constitution guaranteed the rights of those persons who had acquired national property, and confirmed existing legislation against the *émigrés*; but, contrary to the custom of the Revolution, it made no declaration of principles, and it was silent as to liberty of the press, liberty of meeting, liberty of association, and liberty of conscience. By its omissions no less than by its positive enactments the Constitution tended towards an undivided despotism.

The last clause of that document stated that the Constitution should forthwith be offered for acceptance by the French people. The law of December 14, supplemented by the Consular decree of December 15, regulated the arrangements for the *plébiscite*. The voting was not secret. The poll in each commune was to continue for three days from the date of arrival of the necessary instrument at the chief town of the canton. In consequence of this provision, the taking of the *plébiscite* lasted, in the departments, till nearly the end of January.

The period of waiting seemed long to politicians in the capital. Only five men were actually in office: those, namely, who had been mentioned by name in the Constitution—the three former provisional Consuls and the two new Consuls. Bonaparte had shown great judgment in his choice of the two latter. Cambacérès was a native of the South; cautious and subtle, he had been a member of the Convention, and was rightly regarded as an able lawyer. He justified the confidence which Bonaparte placed in him, and proved himself a skilful, cool-headed, and sound adviser. If he did nothing to prevent Bonaparte from becoming a despot, if he even aided him to become one, he succeeded in sometimes tempering the eccentricities and harshness of his master, at any rate in matters of detail. Lebrun was thirty years older than Bonaparte; he was a Norman, phlegmatic and cunning, and was believed to be still at heart a royalist. It was possibly for this very reason that Bonaparte chose him, in the hope that his example would win over the waverers; for Lebrun was by no means a well-known man, and had played no prominent part during the Revolution. His name was the first on the list of the Intermediate Commission of the Council of Ancients, and he was said to possess literary talent and some knowledge of finance; but he never showed any disposition to take the lead.

Thus, while a few of the men of Brumaire had made their fortunes, the rest were still kept waiting. Once again Bonaparte resolved to force the pace; and he was the more inclined to this, since the information received as to the result of the *plébiscite* was encouraging. A law passed by the Intermediate Commissions on December 23 provided that the new Constitution should come into force two days later (4 Nivôse, year VIII), in other words, on Christmas Day. Bonaparte intentionally chose the date of a great Christian festival for the inauguration of his government.

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K K Z_ # , 3 8& 5 , *

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s))

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9<' B ; 28' <@ ; A"5' ; B<' "9<' <G 0:" 2' @ 25 5"<B' 40 ; 5"' <2" <0?' ' B <@"' "4D<5F' 42B' =<' 94G<' 5<<2' = "9' =94"' @4 <' 4:B 2& 5 ' 5 2' 45' 9<' =45' 4AA 2"<B& A R*<B<B' " ' < -42 5<' "9< ;)' 9<' 242@<' 04=' ' '<C :4 ?' U& K Z& A G B<B' "94"' [' 400 @ 00<@" 5' ' B <@"' "4D<5' 59 :0B' C<' 4AA 2"<B' C?' "9<' ' 5"' 25:0&\' 42B' "94"' "9<' <' 59 :0B' C<& [5 ' 4 ' 45' A 55 C0<& 2<' @ 00<@" ' 2' <4@9' @ "?& " =2& 42B' G 004-<)\' 9<' 4B ; 2 m 5" 4" G<' 9 < 4 @9?' =45' "9<2@< =4 B' @ ; A0<"<' 42B' :00?' @<2" 40 5<B' ; B<' "9<' "4"<)' ?' "5' = 5<' ; 424-< ; <2"' "9<' "4D<5' =< <' - '" 2' = "9' 4 ' - <4"<' 4@ 0 "?' 42B' A B:@<B' C<""< ' <5:0"5)

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KYW W_ $! ') ! ' , ' ; . + , ZK

<0 B)' 'B< '" 5 : 8<5" 2' "94'" "9<' = 0B'0<- " B<B' $4 : 0 45' 2' < ; 2 2<' 0<4B 2 - 5" 2 -' <D@ "8' "9<' <' ' "9<' 54)' 9<' 2" B : @" 2' " ' : '" ' 4' ? : 2 -' C<4 : "?& 4B< ; 5<00<' (A : >9 ; ' B B' "9<' "<5")' 9<' 5"4 ' ' "9<' ; A <55' 42B' 9< ' @ 2 B42"<' 8 <B)' 5" AB 2' @4 ; <' C4@>' " ') ! '" $<"< 5C : -' " ' "4><' @94 -<' ' < -2' 4 4 5)' '" = 48 5" A 2' = 9 ' =45 "9<' 5 : 0 ' "9<' : 55 42' 400 42@<' = "9' $ 8 9<' @49 A4 - 5' 'b"9<' ! < ' 42B' 1 <' 5 : @<5' ' "9< <5" 42 -< ; <2'" ' $4 : 0 4 ; ' : 5" 4' 94G<' C<<2' B<5@ C<B' 2' 4' A <G : 5' G 0 : ; <)' %9<2' ! : GB '0<B' C4@>' "9<' < ; 4 25' '9 5' -400 42'" 4 ; ?' 2" ' 4G4 4' 2' "9<' 4 : " : ; 2' 'KYWW& 400 : 55 4' 4@@ : 5<B' "9<' : 5" 5 : 45 R ' " <4@9< ?)' ' $4 : 05' 42 -< ' 4'" A 0 " @40 C<" 4?40 =45' 4BB<B' "9<' : ?' ' A< 5 240 <5<2" ; <2")' 5' 4G 2 "<' B4 : -9"< & "9<' 42B' : @9<55E 0<"22B 4& 94B& 4 "< ' "9<' 4 0 : <' ' "9<' ! =<B <9' ; 4"RB & ; 4 <B' " <0 @9B : >< 6 5<A9& $ 2@<' $404" 2< ' : 2 - ; ?)' 9<' <40 : 5?' R ' "9<F ; A <55' B G<' "9<' C<4 : " : 0 : 55 42' ; ' "9<' : 5" 42' : ")' % 9<2* $4 B' 9<4 B' ' "9 5& 9 5' 4 -<' %45 C : 2B0<55)' ' '4' " ; <' " 59' B A0 ; 4@?' A <G ; "<B' 4' G 0<2'" <DA0 5 2F C : "& 0 2 -' C< <' "9<' 25 : 0'" < <B' " ' "9< : 55 42' 04 -' 2' "9<' @4A " : 04" 2' ' 2@ 24' G< ; C< ' W& KYW E' 94B' C<@ ; <' >2 =2' 2' ! '" $<"< 5C : -& C<2a0& @9400<2 -<B' C?' $4 : 0 " ' 425=< & [= "9 : '" +' ' #*' =9<"9<' : 5" 4' = : 0B' <5" <' $ A<' 42B' "9< / 2 -' ' !4 B 2 4' " ' "9< ' B ; 2 25' 42B' 5 G< < -2"?& 94B' 4 0<B' " ' - G<' 4' 54" 5 4@" ?' <A0?] ; B' C<<2' C BB<2' "9<' : "F 42B' "9< " A5' ' ! : GB ' 94B' C<- : 2' "9<' ' 9 ; <=4 B' ; 4 @9' "9 : -9' 9< ; 4' 42B' 4G 4)' 9<' 5 0<' <5 : 0'" ' : 55 4' ' "9<' @4 ; A4 -2' ' KYWW' =45 "9<' @ 2N : <5'" ' "9<' 2 42' 5042B5' 2' 400 42@<' = "9' "9<' : >5)' $4 : 0 0 2 -<B' 8 " ' 4G<2 -<' 9 ; 5<0 ' : A 2' : 5" 4)' <' =45' 5" 00' = 00 2 -' " ' 4@'" 4 -4 25") 0 ' 42@<& C : '" "' ; : 5'" C<' = D' "9< ' "B0 <5)' <' A A 5<B' 4' 2<=' @ " 2' ' ; <B' ' "9<' 2 "9< 2' $ =< 5& " ' "9<' <D@0 : 5 2' ' : 5" 4)' : '" ' '. 5 : @9' 4' 0<4 - : <' 2< "9<' ' $: 55 4' 2 ' 2 -042B' =45' A <A4 <B) <42 = 9 0<@4 : 8' 'B < <2@<' C<"=<<2' 2 -042B' 9< ; <9 '42B' : 55 4'=< < ' 2 '" %42" 2 -)' 9<' @ ; C 2<B' 2 -0 : 5 ! 42' <DA<B " 2' 2' 0042B' =45' 4' " "40 4 0 : <)' 9<' : 55 425' 94B' 5 : < <B' 9<4G 0?F 42B' "9<' : >< ' # >' @4 2" : 04"<B' 4'" 0> ; 44 ' @" C< ' K '" 2' @" C ; ' W& KYWW& ; 4A4 "<' 042B<B' 4'" ' < : 5)' 2' G< ; C< ' W' K ' : ; 4 <& ?<4 ' E' "9<' <@" ?' =45' G< "9 = 2F 42B' 2' "9<' 2<D'" B4?' "9<' 25 : 04"<' =45' <5"4C0 59<B))' 9<' <4 -0<' <?<' ' 24A4 "<' " >' 2' 4'" 4' -042@<' "9<' A 0 " @40 5 " : 4" 2)L' 5' 5'" "9 : -9'" =45' " ' <2" @<' $: 55 4' ; ' 9< ' 4"" " : B<' ' 2< : " 40 "?' 9 5' 2<D'" " ' B 4=' ' $4 : 0 ; ' "9<' 40 " 2)' 9<' 5'" 4AA 4@9<5' " ' $4 : 0 =< < ; 4B<' "9 : -9' 4 ; C : -F C : '" 28 " 4" 25' 5 2' @<2" <B' 2' < 0 2& =9 "CN ' $4 : 0 94B' 5<2'" / B<2< ' 45' 4 -<2'" " ' <5" <' <2B0?' 8 <040 25' = "9' ' <B< @>' % 00 4 ;)' 2' 40"4& <2' @0 5<' A <55<B' C?' 4 0 " 59' 5N : 4B 2& 24A4 "<' <@ -2 5<B' "9<' 2<G "4C0<' 4AA0<' ' B 5@ B' 8 C<"=<<2' 2 -042B' 42B' : 55 4)' <' < <B& 59 : 0B' "9<' -4 5 2' C<' E @ ; A<00<B' C?' 4 ; 2<' " ' <G4@ : 4"<' "9<' A04@<& " ' 942B' G< ' "9<' 5042B' " ' 0 "9<' 54 ' 45' 42B' 45"< ' ' "9<' / 2 -9"5' ' !'" 6 92)' ' 5 : - -<5" 2) 2)

Z 7 . ' ' ' ') , ' > , 5 ' I Y4H

@ : 0B' 94G<' C<<2' C<""< ' ""<B' ' "5' A: A 5)' KKK' G @" ?' ' 4 <2- ' 6 : 2<' KZ& K E' 94B' D<B' "9<' 4B ; 4" 2' ' $4 : 0 : A 2' 24A4 "<)' ! 9 "0?' 4 "< =4 B5' "9<' = 0?' ' 5'" 0 25 B' C4 "<B' ?<'" 42 "9< ' 9 >)' 9<' " 59' G< 2 ; <2'" 94B' B<@0 2<B' " ' <@< G<' 2' <D@942-<' ' <2B9' A 5 2< 5' : 55 425' = 9 ' 94B' C<<2' @4A" : <B' 2' 0042B' 42B' <05<=9< <)' 24A4 "<' < <B' " ' <5" <' = "9 : '" 425 ; ' "9<' : 55 42' A 5 2< 5& 5 ; <' ' 2' 2 : ; C< & 45' 4' A4 " @ : 04 ' ; 4 >' ' 9 5' <5"<< ; ' ' "9<' C 4G<' : 55 42' " A5& 42B' ' 9 5' B<5 <' " ' A0<45<' "9<' 54)' <' ; 4B<' >2 =2' 9 5' <@ -2 " 2' ' "9<' 2"< <5'" "4><2' C?' $4 : 0' 2' ! 4 B 2 4& 4A0<5& 42B' ; <& $4 : 0' =45' <2524 <B' 40 >' "9 : -9' 9 5' @9 G40 ?' 42B' 9 5' 2 B 24"<' A B<)' <2< 40' ! A <2-A "<"'" =45' B<5A4"@9<B' ' K E' " ' $4 5' " ' A<2& : 2B ; H @ G< ' ' <@< G 2-' "9<' : 55 42' A 5 2< 5& B <@'" 2<- " 4" 25' G "9' 8<' ' 5'" 25 : 0)' <' =45' <@< G<B' C?' 24A4 "<' 2' <@< ; C< ') <42=9 0<' 2' ! <A"< ; C< ' U& K & 40"4' @4A " : 04"<B' C : '" "9<' " 59' G< 2 ; <2'" 59 =<B' 2 ' B 5A 5 " 2' " ' 5 : <2B< ' "9<' 5042B' " ' "9<' 54)' $4 : 05 42-<' : 2B' G<2'" 2' "9<' ! <@ 2B' ; <B' <:" 40 "?) ' ' "9<' 2 " 40' @ 2@<A" 2' ' "9 5' 0<4- : <' "' 5' 2<8554 ?' " ' - ' C4@>' "=<2"?' ?<4 5)' 2' KY ' <4'" "4 2' =45' 4'" =4 ' = "9' 9< ' <G 0"<B' ; < @42' @ 0 2 <5& = "9' ' 42@<& 42B' = "9' ! A4 2)' 9<' @ ; ; < @<' ' 2<: " 40' $ =< 5' ; : 5'" 40=4?5' 5 : < ' ; <' ' 0<55' 4'" "9<' 942B5' ' A =< : 0' 24G40' C<00 -< <2"5)' ! : 9' C<00 -< <2"5' 94B' 40=4?5' @04 ; <B' "9<' -9 '" " ' @4A" : <' 4'" 5<4& 2 '" 20?' "9<' A : C0 @' A A< "?' ' 4' 9 5" 0<' ! "4"<& C : '" "9<' A G4"<' A A< "?' ' 9 5" 0<' =2< 5' : 2B' 2' "9<' 9 -9' 5<45' : 2B=' 4' 9 5" 0<' 9<?' 94B' 455 : ; <B& 2' 1 <' < 8< B5<' ' " 9<' -9'" ' C0 @>4B<& 4 : "9 "?' "A' @ : '" ' 4 ' 4AA 4@9' C?' 5<4' " ' @< 4 2' A "5' 42B' @ 45" 0 2<5F' 42B' "9<?' 94B' 5< a8& 8 ' @ 2" 4C42B& - B5' ' @< ""=' > 2B5' =9<2' @4 8' 2' "9<' 9 -9' 5<45' " ' 4' 9 5" 0<' B<5" 24" 2& <G<2' =9 ; ' : 2B<8' 4' 2<: " 40' 04-& S 2" 0' "9<' @0 5<' ' "9<' 5'" 940' ' "9<' < -9"<<2"9' @<2" : ?& "9<?' 94B' @04 ; <B' 42B' <D< @ 5<B& = "9 : '" -<2< 40' A "<5"& "9<' A =< ' " ' @4A" : <' R ; "9<' 9 -9' 5<45' 9 5" 0<' A A< "?& " : -9' 04B<2' 2' C 4 4' 2<: " 40' ; < @942" ' i ; <2)' ' 2400?& 2' B< ' " ' 5<@ : <' "9<' ' -9"5' 2' "9<5<' 42B' "9<' A4 " @ : 04 5& "9<?' ; B' <D< @ 5<B' 4' -9'" ' G 5 '" " ; B' 5<4 @9' G< ' 4 ' ; < @942" ; <2' <2@ : 2"< <B' 2' "9<' 9 -9' !<4-)) 9<' 2"< <5"5' ' C<00 -< <2'" 42B' 2<: " 40' 2' <5A<@'" ' "9<5<' A 4@" @<5' =< <' CG : 50?' B G< -<2")' '" =45' " ' "9<' 2"< <5'" R ' "9<' CB0 -< <2'" " ' 5A <4B' "9<' 2<'" = B<F '" =45' " ' "9<' 2"< <5'" ' "9<' " 4B< ' " ' 5<@ ; <' "9<& : " ; 5'" <<B ; ' '" 4 @)' ! ' <4 0?' 45' "9<' 5<G<2" <<2"9' @<2"" 2?' "9<' : "B & 45' - <4'" @4 < 5& ; 4B<' '" 4' A 2'" ' B A0 ; 4@?' " ' 5<@ : <' C?' 5A<@ 40' = "9' G4 : 5' $ =< 5' "9<' <@ -2 " 2' ' "9<' A 2@ A0<' [' " ' 59 A5& <<< - B5&\')<)' "94'" "9<' 2<: " 40' 04-' <D< ; A"5' ; ' 5< a : <' B 24 ?' C8 + < ' <2'" A A< "?' 04B<2' "9< <: 2B<)' ' <B< @>' "9<' <4'" 94B' <2B<4G : <B' = "9' 2B < <2'" 5 : @@<55& " ' < <@'" "9<' A 2@ A0<' 2" ' 42' : 2 G< 540' : 0<)' 2' 4' 5A '" B @"4"<B' C?' 0<55' AG : <0?' 5<0 59' @ 25 B< 4" 25& G4 : 5' " <4" <5' 94B' C<<2' @ 2" 4@"<B' ' "9<' B< 2 " 2' ' @ 2" 4C42B& 42B' ' "9<' B<" < ; 24m " 2' ' "9<' -9"5' 42B' B : ' <5' ' "9<' 2<: " 40' ; < @942'" 2' -<2< 40)' 9<

KY _ ' ') , ' > ! + Z

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@)) Z 3

U $ + &% ' % . ' I0 K

$4 >< ' < ; 4 2<B' 2' <5< G<' = "0' < -9"' 59 A5&' 2B : B 2 -' 5 D' ' 8 "' B 4 : -9" 3 4' G< ?' 2 : B @ : 5' B 5A 5 " 2&' 5 2@<' "9<' 5"' A 2@ A0<' 2' =4 ' 5' " ' < ; A0 ?' 400' A 55 C0<' 0 @<' 4"' "9<' A 2'" ' @ 2"4@"&' A ' " 5&' 9 =<G< &' "9<' @ ; ; 42B< 2 @9 <' ; :5"' C<' 9<0B' <5A 25 C0<F 9<' 94B' 59 =2' 5 ' ; : B ' " ; B "?' 42B' 9<5 "4" 2' "94"' <05 2' A C4C0?' <4 <B' " ' 404 ;' 9 ;' C?' 48 > 2-' ' <"<"?' 5< G @<4C0<' 59 A)' "' 5' 405 ' " : <' "94"' <05 2' : 2B< <5" ; 4"<B' "9<' 5" <2 -"9' ' "9<' 42 59' B< <2@<)

2' A 0' K&K UK&' <05R ; J5' B G 5 2' 54 0<B' 5 : "9=4 B' C< <' 4' 2 "9' = 2B' " ' "9<' A 2'" =9< <' "9<' @9<228' 2' C<0 =' "9<' @ "?&' 42B' "9< <' 42@9 <B&' =4 " 2-' ' "9<' = 2B' " ' 59 ")' 2' "9<' 2B' "9<' @942-<' @4 ; <F' 42B' 4C : '" W' - ' "9<' B G 5 2' =< -9<B' 42B' 5" B' : A' "9<' / 2 -J5' 9422<0 " ' 4""4@>' "9<' = <5)' 9< <' =< <' ; 427' ; 54BG<2" : <5F' 2<' 59 A' @ : 0B' 2 '" =<4"9< ' "9<' 59 40' =9 @9' A4 "<B' "9<' "= ' @9422<05F' "= ' "9< 5' 42' 58 : 2B' "9 : -9' < 5' ' "9<' A 0 "5)' : "& = "9' "9<' <5"&' <05 2' 42@9 <B' 2' 0 2<' A4 400<0 " ' "9<' 42<5&' ; 4> 2 -' 2 ' 4""< ; A'" " ' @ 2@<2" 4"<' 2' 4' A4 '" ' "9< ' @<&' 42B' : -9"' 4' < @<' 42B' A " 4@"<B' C4""0<&' 2' =9 @9' "9<' - <4"< ' @4A4@ "?' " ' "4><' 42B' - G<' 94 B' >2 @>5 @4 <B' "9<' B4?)' ' $4 >< J5' <?<&' ; 4""< 5' 5<< ; <B' " ' C<' - 2 -' 5 ' C4B0?' "94"' 2' "9<' ; B5"' ' "9<' C4""0<' 9<' ; 4B< 5 -240')' W& 8' 5@ 2" 2 : <' "9<' 4@" 2\F' 42B' "9<' 5 -240' =45' <0 : @"42"0?' 4@"<B' : A 2' C?' 4A"4 2' : = "9' "9<' 52 400< ' @ 4 ")' <05 2& 9 =<G< &' =45' <N : 8' " ' "9<' < ; < -<2@?)' <' " : 2<B' 9 5' C0 2B' <?<' " ' B5' "<0<5@ A<' =9<2' "9<' 5 -240' =45' <A "<B' " ' 9 ; F' 42B' -4G<' B< 5' "94"' "' 59 : 0B' 2 '" C<' <A<4"<B' C?' 9 5' 59 A5& 42B' ""4"' 9 5' =2' C4""0< 5 -240&')' K & [2-4-<' ; <' @0 5<0?&\' 59 : 0B' C<' ><A" 0? 2 -)' 5' 2B<A<2B<2@<' =45' " : ; A942"0?' : 5" <B)' 9<' "9< ' 59 A' 2' "9<' 0 2<' B B' 2 '" 0 2@9' ' C<?' "9<' B< ' " ' = "9B 4=F' 42B' $4 >< J5' 5 -240' C4B' 2 ' 2 0 : <2@<' 2' "9<' <2 -4-< ; <2")' ' <D<@ : "<B&' "' ; : 5"' 94G<' <5 : 0"<B' 2' 4' " 59' B< <4"' 42B' 2' "9<' 0 55' ' "9<' 59 A5' =9 @9' =< <' 4- : 2B)' "' 2 ' A 2'" 2' 9 5' @4 << ' B B' <05 2' - G<' <G B<2@<' ' - <4"< ' : B - ; <2"' 42B' "<24@ "?)

9<' @ 5 5' A455<B' = "9' "9<' 5 -240F' "9<' < ; 59' <' C<-42' " ' 504@><2F' 42B' 04 ; <5' 59 =<B' 2' 5<G< 40' ' "9<' 42 59' 59 A5)' 2= 00 2-' " ' B<5" ?' "9<' B 54C0<B' G<55<05' ' "9<' <2< ; ?J5' 0 " 004&' 00<B' 45' "9<?' =< <' = "9' = : 2B<B&' 42D : 5' " ' 4G B' 2 0 @" 2-' : "9< ' 2 : ?' : A 2' 4' 24" 2' =9 @9' 9<' = : 0B' 94G<' 5A4 <B' 94B' 9 5' =2' A 0 @?' C<<2' 4B A"<B&' ; B&' '" ; 4?' 405 ' C<&' <<0 2-' 5 ; <' @ 2@< 2' ' "9<' 54 <"?' ' 9 5' 2 : <B' ' - : 2B<B' G<55<05&' 9<' A A 5<B' " ' "9<' 42<5' "94"' 2-' 59 : 0B' @<45<' 42B' " 4'" 9<' 59 : 0B' "4>' A 55<55 2' ' "9<' A a<5&' "9 <4"<2 2-' "94"' ' "9< 4@" 2' @ 2" 2 : <B' 9<' = : 0B' C0 =' "9< ;' 2" ' "9<' 4 & 59 A5' 42B' @ <=5)' ' " : @<' =45 4 42 -<B' <05 2' " >' A 55<55 2' ' "9<' 42 59' 0<<"F' 42B' 4 "< ' 5 ; <' B4?5' ' 2<- " 4" 2 -&' 9 5' ; 2 -0<B' C 0B2<55&' "4@"F' 42B' ; 2<55' C : -9"' "9<' 42<5' " ' @ 25<2"&' 2' A 0' W&' " ' 4' 5 : 5A<25 2' ' 9 5" 0 " <5)

9<' 2<=5' ' $4 >< J5' B 04" ?' A @<<B 2 -5' 42B' ' 9 5' 5 -240' <4@9<B' "9<' B ; 40"?' 4'" 9 ; <&' 42B' 0<B' " ' 9 5' 5 : A< 5<55 2)' <05 2' "94 @<' =4 B' B <@"<B' "9<' ; G< ; <2"5' ' "9<' 0<<")' 9< <' 5' 2 ' B @ : ; ; "4 ?

UZ ! @1

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2 6 : 0? W& 4 " 42@ ! A42 59 5N : 4B 2 5 D 54 0& : 2B ; @< B ; 40 <2 & 2<B (2 5 4" 0-<@ 45F 42B 2 "9< K K"9 "9< 400 <5 54 0<B 4B a& 0<4G 2 - C<9 2B "9< A a< "4><2 ; "9< " 59) 9< 400 <B 4B ; 405 =< < " -<" < 2 4 - 4"<F 2 5 - 2405 9< "= 0<<"5 0 : B C<<2 55 : <B) ! 4 : ; 4 <a& = "9 9 5 G< 5< G @<4C0< 0 A5& 00 =<B "9< ; 4" 2@<& 42B C<- 42 4 : 22 2 - 4@" 2 = "9 "9< ; 2 "9< 04"< 9 : 5 "9< 2 - 9") ! A42 59 "9 << B<@>< =45 "9< 5" 59 A C : - 9 " 4@" 2F 59< 5A<<B 0? @4 : - 9 <& 42B B AA<B 45"< 2& =9<2 59< <00 2 = "9 "= 9< @ 25 "5& =9 @9 A<2<B < 2 9< & ; 5"4> 2 - 9< 4 " 59 G<55<0) 5 "< 240 <58 "9 5 " 4 - @ < & "= - <4" ! A42 59 "9 << B<@>< 5 B<5" ?<B 2< 42 "9< & C "9 C< 2 - C : 2 = "9 "9< - <4" < A4 " "9< @ <=5) "9 B G<55<0 5 : <2B< <B " "9< " 59 4 "< 4 59 "<2 - 4 - < ; <2 " 4" @0 5< N : 4 "< 5) 9< <5" " "9< 400 <B 0<<" <4@9<B 4B a 4 "< 5 : 5"4 2 2 - "9< " 59 4""4@>& 42B 2 "9 5 - : 2B @04 ; <B 4 G @" ?) =45 4 5" 42 - < @04 ; & "9< 400 <5 0 5 " "9 << 59 A5 42B U > 00<B& = : 2B<B& 42B A 5 2< 5 " 4 1 2 < @<& =9 0< 2 0 @" 2 - 2 "9< " 59 C : " 25 - 2 @42" 0 55) : "& "9 : - 9 (2 5J 0<<" 94B 2 " C"4 2<B 42? 5 : @@<55 ; A "42@<& " : - 9 " C<""< "942 42? ' <2@9 0<<" 2 "9 5 5" A< B "9< =4 F 42B " B<5< G<B <G< ?@ <B " "9< 4@" 2 4" 0-<@ 45& =9 @9 00 : 5" 4"<B 42<= "9< 5> 4""4@> 2 - <G<2 /& 2 < <2< ; ? =9<2 @ G< <B C? "5 42B - : 2C 4"5)

% / " 1 4 2 " 2 " <(>??@( )*A=

$: C< < " < %O : ; 5B < "9< <5 B<2" "9< <@" ? = 9<2 @<0<C 4" 2- "9< + "9< <2"9 : - : 5" 94B B<@04 <B "94" ; 24"@9? = : 0B 2<G< 4-4 2 4 5< "5 9<5 B 2 $ 42@<8 42B "94" "9< 045" 94B C<<2 5<<2 "9 5< 5<0 5"?0<B B<0<-4"<5 <4G<2 = 9 9<0B ' <2@9 ; <2 2 5 : C <@" 2 42B 0 % : A 2 "9< 04 = "9< 042B ; < <0? 45 "9< 25" : ; <2" "9< =2 - B A0<45 : < 9< 5 8 " = 9 @9 ; <2 =< <2<G< '" 5<< 4-4 2 "9<?54 = 40 ; 5" ; ; <B 4"<0? ' 42@<B<5 <B <5" 42B A<4@< 42B 59< @400<B 24A4 "< " 9< 4 B 4 ; 42 = 9 =45 C? 24": < 2@4A4C0< - G 2- 9< < "9< %4 =45 <55<2" 40 " "9< A 0 " @40 <2B5 = 9 @9 24A4 "< =45 A : 5 : 2- 9< 9<0B 45 B B "9< " <@" ? "94" "9< ": 2<5 "9< <A : C0 @ B<A<2B<B 2 "9<@ 2" 2 : : 5 <D" 2 5 @ ; "5 : 0< 9< <A : C0 @ 9 =<G< =45 9<2@< "9 " C< ; < -<B 2 "9< A< 5 240 "? 24A4 "< 42B "9< <0<G4" 2 =4 2" 4 5?5"< ; - G< 2 ; <2" =45 4 A 0 @? = 9 @9 9< ; 4B< 9 5 = 2 9< C <@" 2 G <= =45 2 0 2-< 45 94B C<<2 : 2B4 "9< 2G<2" 2 " <5" " ' 42@< 9< [24": 40\'0 ; "5 "9< 9 2< "9< 0A5 42B "9< $? <2<<5 C : " "9< ; 4> 2- <59 @ 2N : <5"5 C<? 2B 9< 8 B< 5 2 "9< ; : ; 4 4A 0< 2 A @0 ; ; <6 < ! @""C8 8 5 0B < 5 [; "45>\ 92 5 BB 5 2 " " B< <2B : =2 2" < 5 C : " 2G4B< "9<"< " ? ; 2 <5)\ < G< 2 5A "< 9 5 A4 @ 455 : 42@< 4" "9< ; ; <2@< 4 " "9< 25 : 04"< 42B 9 5 A "<5"5 "94" "9< : 2@" 2 = 9 @9 9< 94B 455 : ; <B =45 A : <0? @ G 0 " =45 2 "9< 4 ; ? "94" 9< <0 <B "9< 4@@ ; A0 59 ; <2" ["9 5< - <4" "9 2-5 \ = 9 @9 5 2@< KYWY 9 5 < G B 42B <2"9 : 5 45" @ ; 4- 24" 2 94B >< A" 2 G <= " "9< <2B KYWW "9 j ' <2@9 " <45 : ? 94B : 2 B ? 24A4 "< A @04 ; <B "94" " 59 : 0B C< <A0<2 59<B = " 2B5 "4><2 ; 9 5" 0< ! "4"<5 ; "9< " = 25 "9< @ 2G<2"5 42B "9< @ " a<25 9< 4 ; ? =45 5"4 G 2- 24A4 "< A ; 5<B 9 5 5 0B < 5 4 5A<<B? <2B " "9< " : C0<5 [@" ?\ 9< " 0B "9< ; [= 00 - G< ? : C <4B)\ 9< ; 4 "? ; @9 ; <2 B B 2 " 594 < "9<5< G <=5 %<4 ? = " * "5 0 2-5" : 80< 42B <<0 2- "94" "5 2B<A<2B ; @< =45 54 <0? - : 4 B<B C? "9< 9 2< 42B "9< 0A5 "9< 24" 2 0 2 - 8 A<4@< : " <5A<@" @) 2)

' "9< 4 ; ?' 2' "40?& <2< 40 <045& <2 <<C0<B' C?' 4-<& 50 =' ' ; 2B& 42B' G< <4:" :5' 2' 4@" 2& 94B' "4><2' "9< A>@<' ' "9< C 00 42"' 42B' ; A<": :5' !:GB ')

\' '" =45 20?' 2' "9<' ; 4""< ' ' 2: ; C< 5'42B' A 5 " 2' "94"' "9< :5" 425' 94B' 42' 4BG42"4-<' G< ' "9<' ' <2@9)' <2< 40 / 4?& = "9' 42' 4 ; ?' KU1& c ' 5" 2-& @@:A <B' 2' "9<' 2< -9C : 9 B' ' 24:<5<9 2-8' 4' = B<B' 42B' 9 00?' B 5" @"& 40 ; 5"' <5< ; C0 2-' 4' G45"' <2" <2@9<Bd@4 ; A& 042><B' 2' 2< 5 B<' C?' 4' G< ' 42B' 4' 04><& 42B' 2' "9< "9 = ' C?' ; :2"4 25' 42B' B<25<' <5"5& 1 ;' = 9 @9' 9<' :0B' 5= A' B = 2' 9"' A0<45: <' 2' "9<' 2" < 5' ' 054@<' ' ! = "a< 042B)' 9<' :5" 425' 94B' 4"' 045"' <@ -2 5<B' "9<' 5" 4"<- @ ; A "42@<' ' "9< 04""< ' @ :2" ?& 42B' "9<?' A: A 5<B' @@:A?m 2-' ")' 2' "9<' "9< ' 5 B<' ' "9<' 9 2<& @ 2e ; 2" 2-' / 4?& <4:' =45 4"' "9<' 9<4B' ' KK & ' ; <2' B 5" C:"<B' ' !' C<"=<<2' !" 455C: -' 42B' 25"42@<) 5& 9<?' =<' <' G<"< 42' 5 0B < 5F' 42B' "9< ' @ ; ; 42B< & @4:" :5& A <@ 5<& 42B' 5> 0 :0& =45 "9<' C<5"' -<2 ; 0' ' "9<' <A:C0 @)' 2' "40?' <045' 94B' :2B<' 9 5' B< 5' 4"9< ' ; <' "942' K & ' ; <2& ' =9 ;) ' =<' <' <N: <B' " ' -4 5 2' "9<' " <55<5' ' AA<' ' "40?'F C:"& 8 < ' 5<2B 2-' @< "4 2' B<"4@9 ; <2"5' 2" ' :5@42?& 9<' 5" 00' 94B' Y & KK' ; <2' 0< '" ' A< 4" 25' 2' "9<' <0B)' 9<' ' <2@9' 4 ; ?' ' "40?& ; B<' "9<' B< 5' ' 455<24& =45' C:'"9<' 594B =' ' "9<' 2< @<' "94'" 24A5 "<' 94B' 0<B)' <@ ; 4"<B' 42B' B 5 -42 5<B& '" B B' 2 '" 2:; C<' ; <' "942' & ' ; <2F' 42B' '" 2<<B<B' 400' "5' -<2< 40!5 <2< -?' " ' - G<' '" 42?' @ 9<5 2) ' < ; <B?' 9 5' 2 ; "?' 2' 2:; C< 5& 24A52 "<' 94B' C:5 <B' 9 ; 5<0' 5 2@<' 642:4 ?' = "9' "9<' @ <4" 2' ' 4' <59' 4 ; ?)' 9<' 240 A4@ @4" 2' ' "9<' <2B<' <0<45<B' " A5' 5: @ <2'" " ' ;' "9<' 2:@0<:5' ' "9<' 2<=' @<F' 42B' 2' 4 @9& = "9' "9<' 4 G40' ' @ 2" 2-<2"5' ;' $4 5' 42B' "9<' 5 :"9&"9<' 4 ; ?' "5<0' =45' 2<": 80?' @ ; A0<"<F' '" 2:; C< <B' ;' Z & ' " U) ' ; <2)' 24A4 "<& =9 5<' 5'" B<4' =45 " ' ; 4><' "9<' C42>5' ' "9<' 9 2<' "9<' @9 <' "9<4" <' =4 & =45' 2' "9<' A 2'" ' 5<2B 2-' "9<5<5 0B < 5' "9 "9<' & =9<2' <4:J5' <0:@"42@<" ' 5<' <:2B<' 9 ;' 2<@<55 "4"<B' 4' @942-<' ' A042)' <' 2 =' B<@ B<B' " ' 0<4B' 9 5' 2<=' 4 ; ?' 2" ' "40?& =9<' <' 9<' 9 ; 5<0' @ " 0B' "4><' "9<' @ ; ; 42B)' 4 0?' 2' A 0' 9<' B< <B' <4:' " ' C8 ;' 9 5" 0 " <5' 2' "9<' 9 2<& =9 0<' 9<' 9 ; 58' = "9' 9 5' 4 ; ?' =45 " ' ; 4 @9' " ' "9<' 9<0A' ' 455<24)' 24A4 "<J5' B<4' =45 "94'" <4:'59 :0B' C 0B0?' @ 55' "9<' 9 2<' 4'" !@94 0$94:54' = "9' 9 5' =9@B<' @<& 42B' 400' :A 2' / 4?' 2' 9 5' 5" 2-9 0B' 4'" 24:<5@9 2-<2)') <4:' 9 =<G<' =45 " ' @4:" :5' " ' @ ; A ; 5<' 9 5' =9 0<' 4 ; ?' C?' 4' 5 2-0<' ; G< ; <2"& 5 2@<& 2' "9<' <G<2'" ' B< <4"& '" = :0B' 94G<' C<<2' B ; <B' " ' @< "4 2' B<5" :@" 2)' 2' 5A "<' "9< < <' ' 24A4 "<J5' = 59<5& <4:' @ 55<B' "9<' 9 2<' 4'" 5<G840' A 2"5' 5 ; :0"42< ; ?F' C:'" 9<' ; 42 <:G <B' 2' 5:@9' 4' %4? 45' " ' 0<4B' / 4?' " ' CB <G<' "94'" "9<' =9 0<' ' <2@9' 4 ; ?' = :0B' A455' "9<' 5" <@:2' C<"=<<2' 45<0' 42B' !" 455C: -& 5 ' 45' " ' A<2<" 4"<' 2" ' "9<' 04@>' ' <5"' C?' "9<' 00<2"940& 45' 9<' 94B' B 2<' 2' KYW)' / 4?' <00' 2" ' "9<' " 4A& 4C42B 2<B' 9 5' A 5 " 2' 4'" 24:<5@9 2-<2& 42B' ; 4 @9<B' = "9' A4 '" ' 9 5' @<' " =4 B5' "9<' C<2B' ' "9<' 9 2<& 2' "9<

6M

C AZ 'C 2- 2-' <4:'" '4'5"42B'C< <'C<'0<4@98'"9<' 0"<>' ' <5"'
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94B'@ 55<B'"9<' G<' C<"=<<2' 45<0 42B' !@94 94:5<2)' *?&'5<<2-'
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=< <' @<B'C4@>)' 2' G4 2' B B' / 4?'5" G<" ' -4 2' 4 0C< -'42B'5'
><<A'" :@9' = "9' "9<' 4 ;?' 2' "40?'F' 9<' =45' 0:2-' C4@>'" =4 B5' "9<'
2 "9'= "9' & ';<2'42B'B G4'" '5<<>'59<0"<' :2B<'"9<' =4005' 0;)'
94"'" =2&B<<2B<B'C?'4'@94 2' "5'A<@9<B' 2' "9<'9 005& ;<B'2'
4@"' 42' <2" <2@9<B'@4;A'F' 42B'"9<' <"9<' 4 ;?&5 <0?'" <B'C?'"9<5<'
8 4B9-'@ 2 0@"'5&94B'" ;<'" ' < :"' "5'5" <2-8'42B' <@ G<' "5'== 0'
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A 55 C0<'" =4 B5'"C<'2 "9'= "9 :"' 5> 2-'4'C4""0<& @@:A<B'"9<'B 5" @"'
=9@9'0<5'C<"=<<2'"9<' < & 9<' 42:C<&42B'"9<'(<@9)' +
9<' @4;A4-2' "40?' A<2<B'0<55' <G :;0B?' 1-3 "9<' <;9)'
4558&'=9 ' @@;A<B' = 0' !U& ';<2'4'0 2<' "9 "? G<'0<4-:<5' 2'
0<2-"9' 2'"9<'2<-9C :9 B' ' ; 4&94B'C<<2' B<8'C?' 24A4 "<'
" ' = "9B 4='C 5' @<5' ;' "C<'A455<5' '"9<' 0A5&=9<'<"9<'=2"<'
52 =5' @ ;<B'42'4B<N:4"<'B<<2@<&42B'" ' @ 2@<2" 4"<' :2B'"94"'@"?)'
%90<'A <A4 2-'" '@4 ?' :"' 95' 25" :@" 25'9<'=45'5:BB<20?'4""4@><B'
C?' "9<' :5" 425&=9 & 4 "<' "9<?' 94B' @@:A<B' "9<' 9<-9"5' =9@9'
@ ; ;42B<B' <2 4&@:"' 95'4 ;?' 2'"= F' "9<'0<'" =2-':2B<'! :@9<"'=45'
B G<2'C4@>'" ' "9<'C42>5' '"9<' 4 F' 42B' 455<4'= "9' "9<' <;4 2B<' 3'
"9<'B G5 25' ' ! :0"' 42B' 00 5 3 =45'@ ;A<00<B'" ' <" <4"' ;" ' "9<'
" =2' -4 25"' "9<'5<@ 2B' '"9<5<' 4-;<2"5' <045'B<5A4"@9<B' <2<40'
""'& = "9' B< 5'" '><<A'"9<' '<2@9'@0 5<0?'59:"' :A' 2' <2 4F' <2<40'
052 "^& =9 ' =45' 5<2"' 4-4 25"' ! :@9<"& 04""< <B' 9 c5<0'"94"'& 4 "<' B<m
<4" 2-'"94"' -<2<40&9<' = :0B' C<'4C0<'" ' @<'95'=4?' 2" ' $ G<2@<&
=9<' <"' =45' C<0<G<B'C?'"9<' :5" 425'"94"'4'A A:04' ;G<;<2"' = :0B'
G<":2'"9<' :0<' '"9<' <A:C0@)
!:@9<"& 9 =<G<& B<<2B<B' 9 ;5<0' ="9' ;:@9' K =' 2'"9<' 4&
42B' :5" 4"<B'"9<'B<5-25' ' 052 "a)' 455B24& 2'95'5 B<&C?'G- :5'
42B' <A<4"<B' 5 "<5& 94 455<B'"9<' :5" 425' !' @ 25"42"0?'"94"' '
5<G<40'=<<>5'"9<?';4B<2 'G5C0<'A - <55)' !"00"9<'A 5" 2'4"' <2 4'
C<@4;<';<@ "@40' ;'B4?'" 'B4?)' "' =45';A 8C0<'" ' <G@"440'
"9<'" =2'"9 :-9'"9<'A "& =9@9'=45'@0 5<B'C?'"9<' "59' 0<<"' :2B<'
(B' /<"9F' 42B'"9<' 294C"42"5'5: <<B'"< C0?' ;'9:2-<&C<2-'
B G<2'4"<'4'"<'4'" ;<"'5:AA '"0<'2'4'5:C5"":"<' 'C <4B' ;4B<'
@ @ 4'42B'5"4@9)' "' =45'" 'C<' <4<B' ;<G<'"94"'"9<' 4;59<B'
A A:04" 2& ="9'"9<' "59' 42B' :5" 42' 04-5' 0 4" 2-'C< <"9<'
<?<5&;-9"' 5<4"'42?'" ;<F' <2 4';:5"'C<'<0<G<B&42B'"94"'="9 :"'
B<04?)' 2' @<'5:@@<<B<B' 2'A455 2-'"9 :-9'"9<'9 5" 0<'0 2<5'42B

24Aj "< 94B "9< ; < <45 2 C<0 <G 2- "94" 42@ 5 = :0B @ 25<2" " ; 4>< A<4@<& 5 2@< "9< :5" 42 4 ; ?2 < ; 42?B 4B :5" 5: < <B 4 5< <5 <G< 5<5) 4?& =9 94B C<<2 @<B " <9<4" C<2<4"9 "9< =4005 0 ; & ; 4B< <A<4"<B 4""< ; A"5 " B G< <4:& =9 & 4BG42@ 2- @4:" :50?C: " 5"<4B 0?& =45 400 "9< =9 0< @0 5 2- 2 :A : 9 ;) 2 4? "9< ' <2@9 -<2 ; 40 94B @@:A <B :-5C: - 42B <5"4C0 59<B 9 ; 5<0 2 "9< B 5" @" C<"=<<2 "9< 42:C<& 8 < 0< & 42B "9< <@9) ; ?4""4@><B 9 ; 2 6:2< U& C: " = "9 :" 5:@@<55 <4:' "9< <:A 2 @ 55<B "9< 42:C< 2<4 0 2B9< ; 42B @: " "9< <2< ; ?!5 <" <4") / ?4""< ; A"<B 2 G4 2 " B G< <4:' C4@>" " "9< -9" C42> "9< G<) 9< :5" 42 4""4@>5 =< < <A:05<B& 42B / 4?=45 @ ; A<00<B" " 4C42B@ ; 9 5 <2" <2@9 ; <2"5) 2 6:2< KW& 45"9< <5:0" 42 "9< ' <2@9 G @" ?-4 2<B 4" <95" "& / 4?=45 @ ; A<00<B" " <" <4" " =4 B5 "9< 2 "9)

<4:' 94B @ 2B:@"<B "9< 5<@ 2B A4 " "9< < ; 42 @4 ; A4 -2 = "9 "9< - <4"<5" 5> 00 42B / 4?& =9<2 9< 9<4 B "9< B< <4" <045& @ 25 B< 2-' : "9< <5 5"42@< ; A 55 C0<8 A A 5<B 4B0 4 ; 5" @< " "9< ' <2@9 -<2< 40) <4:' < :5<B& C: " < 82<B ; ' : "9< A: 5: "& 45 "9< <2< ; ?94B 2 =A0:2-<B 2" 4 = B?42B B @:0" @ :2" ?) % "9 A4 " 9 5 @< <4:'04 B 5 <-< " 0 ; 42B 2- 05"4B" = "9 "9< < ; 4 2B< 9< ; 4 B9<B 2" 4G4 4& @@:A <B :2 @9& 5< a<B "9< A455<5 2" 4 0C< -42B ! = "a< 042B& 42B 5 0 A04@<B 9 ; 5<0 2 @ ; ; :2 @4" 2 = "9 "9< ' <2@9 4 ; <5 =9 @9 = < A< 4" 2-' 2 "9< 2" < 5 ' ? 0 42B "9< 5 25) 2@< ; 45"< '8 "9< 0 2< "9< 54 & <4:& @4:" :5 45 <G< & A < < <B 2 " " G<2": < : "9< " " "9< <45" 42B& <@< G 2-' 4 5<@ 2B A A 540 42 4 ; 5" @< ; / 4?& 9< 4- <<B " 5 -2 4 @ 2G<2" 2 4" $4 5B 2 6:0?KU 9 5 @ 2G<2" 2 A G B<B "94" 9 5" 0 " <5 59 :0B C< 2B< 2 "B?5:5A<2B<B 2 < ; 42?& 42B "94" "9< ' <2BC 59 :0B @@:A? 4G4 4 =<5" "9< 54 & 45 4 45 :2 @9 2 2< B <@" 2 42B 4" 5C 2 2 "9< "9<)

2 5A "< "5 <G< 5<5 2 < ; 42?42B "40?& "9< ; A< 40 G< 2 ; <2"& @ 2" 4 ?" " 24A4 "<5 <DA<@"4" 25& 5<< ; <B G< ?0 ""0< B 5A 5<B " 5 -2 4 " <4"? A<4@<) " < :5<B " @ 25 B< "9< 5 ":4" 2 45 B<5A< 4"<& 42B 0 ><B :A 2 4 <2- 42B @95"4B" 45 B< <4"5 "94" ; -9" <45 0? C< <A4 <B 2 42? @45< " B<@0 2<B " B 5@:55 A A 5< 5 C45<B 2 "9< <4"? 4 ; A ' 22) ' 42@ 5 94B 4 59 " " ; < C< <@ 2@0:B<B 4 " <4"? = "9 <4" "4 2& C? =9 B & 2 @ 25 B< 4" 2 4 5:C5 B? e8&U & & 9< C :2B 9 ; 5B 2 " " 5 -2 4 A<4@< = "9 ' 42@< C< < '<C :4 ? K& K K) % 94" =45 9< 2 =" B < @ :0B 2 " 425=< 24A4 "<5 A A 5405 = "9 42 4C5 0:" < :540& "94" 2G 0G<B 42 ; ; <B 4" <5:; A" 2 9 5" 0 " <5 :2B< @ 2B " 25 B5 " 2@"0? ; 4G : 4C0< " :5" 4 9< "9< < < :5<B 400 9 5 < "5 " 4 ; :5< 24A4 "< C? "9< A 5A<@"5 42 :2B< 5"42B 2-& 9 A 2-' "9:5 " 8 -4 2 "9< " ; < 2<@<554 ? " <@< G< "9< 2-0 59 5:C5 B? 42B " <2 @< 9 5 4 ; ?) " =45 = "9 "9 5 C <@" "94" 9< @ 25<2"<B " B 5@:55 24A4 "<5

24A4 "<& 9 =<G & =45' 2 '" 4' 2442' " ' C<' A04?<B' = "9F 9<' =45' M = 00 2-' " ' " <4'" 2' "9<' C45 5' ' 4 ; A ' ' 44 ' 42B' 9' 2 ' "9<)' <' @ 25<2"<B' 2B<<B' " ' 2<- " 4"<F <G<2' "9<' ; <<" 2-' A04@<& (228G <' =45' 4- <<B' : A 2' C?' 9 5' C "9< ' 6 5<A9' 45' <A <54 " 2-' L 42@<' 42B' C<2B' 45' <A <5<2" 2-' : 5" 4)' < <& 9 =<G< & C<""a0' <4@9<B' (: 28G <& 24A4 "<& = 9 ' = 59<B' " ' 2B' :'" = 94'" "9<' <40' 2": " 25' ' :5" 4' =< <& 2G "<B' 9 ;' " ' $4 5)' 2@<' "9< <& 24A4 "<' 94B' 2 ' B @: ?' 2 0' 2B 2-' :'" = 94'" 9<' = 42"<B)' %9<2' CC<2a0' 94B' C<<2' B G<2' " ' ;4><' 4' B< 2 "<' 5"4"< ; <2'" ' 9 5' G <=5& 24A4 "<)54=' "94'" "9<' 9C <@'" ' :5" 4' =45' " ' !<@: <' 4'0 A9 0<' ' <" <4"& 42B' "94'" 59<' ; <42'" " ' 5-2 9 2C' " <4"?' = "9 :'" "9<' @ 2@: <2@<' ' 2-042B)' 24A4 "<' 4'" 2@<' : 2B ; " ' "94'" 2 "9 2-' C :'" 4' 5 -240' G @"A ?' = :0B' C 2-' :5" 4' " ' "< ; 5& 42B' 9<' " >' ; <45: <5' 4@@ B 2-0?) ' ;' "9<' ; ; <2'" ' 9 5' <": 2' " ' ' 425' 4 "< ' "9<' @4 ; A4 -2' ' 4 <2- & 24A4 "<' 94B' C<<2' @ 2" 2: :50?' <2-4-<B' 2' ; 0 "4 ?' A <m A4 4" 25)' ' <59' 4 ; ?' ' <5< G<' 94B' C<<2' ; <B' 4'" 2' 42B' =45' <4B?& 2' @45<' ' =4 & " ' ; 4 @9' 2" ' "40?' C?' "9<' ! A0 -<2)' 9<' :"@9' 94B' C<<2' B< <B' " ' : 2 59' 4' @ A5' ' ' ; <2& = 9 ' : 2B< ' : - ; <4 :' =< <' " ' < 2 @<' <42' 2' < ; 42?)' "8 ' "9<' 2"< G <=' C<"=<<2' 24A4 "<' 42B' C<2a0' 2' $4 5& "9<5<' A <A4 4" 25' =< <' A :59<B' 2' = "9' "9<' - <4"<5'" <2< -?F 42B' 2 " @<' =45' - G<2' " ' :5" 4' "94'" "9<' 4 ; 5" @<' = :0B' "< ; 24"<' 2' G< ; C< ')

9<' :5" 42' G< 2 ; 8"& = 9 @9' =45' 2 '" <4B?& ; 4B<' 4' 5:A ; 2<' < '" " ' A <5< G<' A<4@<)' 9<' "= ' <2G ?5' =< <' 4'" (" ; <G 00<& =9< <' 9<?' =< <' <2-4-<B' 2' ; :04" 2-' "9<' 4 - : ; <2"5' = 9 @9' C <' :A 2' "9<' N:<5m " 25' = 9<1< ' 42' 2-0 59' :<2 A "<2" 4 ?' 59 :0B' C<' 4B ; ""<B' " ' "9< ' @ 2 < <2@<5' ' 2 "& 42B' = 9<"9< ' "9<' ; A< ' 59 :0B' 5 -2' 45' A 2@<' ' 9 5' 9< <B "4 ?' ! "4"<5' ' 45' "9<' 9<4B' ' "9<' 0?' ; 42' ; A <)' ! :BB<20?' '" =45' A A 5<B' ""' <224' "94'" "9<' " <4"?' ' A<4@<' 59 :0B' C<' 5 -2<B' = "9 :'" = 4 " 2-' ' "9<' @ 2@: <2@<' ' 2-042B& 2' @ 2B " 2' "94'" "9<' " 4254@" 2' 59 :0B' C<' ><A'" 5<@ <'" :2" 0 ' <C :4 ?' K& K K& 2' = 9 @9' B4"<' "9<' 42 42-< ; <2'" C<"=<<2' :5" 4' 42B' 2-042B' = :0B' @ ; <' " ' 42' <2 B F' 42B' "94"& " ' 54G<' 4AA<4 42@<5& 4' "59' A0<2 A "<2" 4 ?' 59 :0B' C<' 4B ; ""<B' " ' "9<' 2<- " 4" 25' 4'" (: 28G 00<)' 24A4 "<' 4- <<B' " ' 4' 5<@ <'" " <4"?' ' A<4@<& C :'" 25 5"<B' "94'" '" 59 :0B' C<' @ 2@0 : B<B' = "9 2' "? < -9'" 9 : 5& 42B' B<@0 2<B' 40' -<"9< ' " ' 4B ; " 4' " 59' <A <5<2"4" G<' " ' "9<' B<0 C< 4" 25)' :5" 4' @ :0B' 2 '" 4@@<A'" "9 5' 045'" @ 2B " 2& 42B' 2 "9 2-' = 45' 0< '" C :'" 4' <59' <5 '" " ' 4 ; 5)

'" "9<' <2B' ' G< ; C< & K &6 5" 0 " <5' =< <' <2<=<B' C "9' 2' < ; 42?' 42B' 2' "40?)' 2' < ; 42?& <4 :' 9<0B' "9<' 0 2<' ' "9<' 54' = "9' K & ' ; <2)' 9<' :5" 42' 4 ; ?' @ ; ; 42B<B' C?' @9B : >< 6 92' 2 : ; C< <B' 20?' & F' C :'" "9 5' 2 < "?' =45' C4042@<B' C?' "9<' - <4" 5" <2-"9' ' "9<' A 5 " 2' = 9 @9' '" 9<0B' 2' "9<' -9'" C42>' ' "9<' 22& A "<@"<B' 2' "9<' 2 "9' C?' = B<B' 42B' 5=4 ; A?' A04 25' 42B' 2' "9< 5 :"9' C?' 5"<<A' 9< -9"5' G< ?' B @: 0'" ' 4@@<55)' <4 :& @ 2 B<2'" "94"

"9< @9B:>< = :0B' <;42' 2' "9<B< <25 G<&B<@ B<B' "'4""4@>'9 ;&42B' 24 @9<B' "=4 B5' "9< 22' 2' B<''@0<4'"9< 4AA 48<5' "'"9< G<g' 42B' @< C4@>' "9< :5" 42' :"A 5"5' "'"9< "9<'5 B<)' "' "9<;;<2"& 9 =<G<&"94"9<A:'9 5' @< 2" ';" 2&95 0<'=45 5:BB8?'4""4@><B' C?' @9B:>< 6 92&=9&@2"4?'"'400 <DA<@"4" 2&94B' c:""<B' 9 5' @;;42B 2-' A 5" 2)' '<B' C?' "9< <DA0 "5' ' 24A4 "<& "9< 0' B B:>< ;<B' "9<4;C" :5' A <@'" ' :"042> 2-' "94' '<2B& @:"" 2-' '"9< ' <" <4"&42B' 4""4@> 2-' "9<;' C< <' "9<?' =< <4C0<" ' @ 2@<2" 4"<)' 9<5:@@<55 '"9 5' A042& 9 =<G<&B<A<2B<B' :A 2' "5' C< 2-' '<D<@:"<B' = "9' g> 00 42B' 4A B "?)' '" =45' <D<@ "8' = "9' 2< "9<)' 9 :-9' "9< A04 25' "'"9< 2 "9&0 = 0? 2-' 42B' 5 BB<2' = "9' 4 2& "9< A - <55' ' "9< 4 ;?' =45' <D@<<B 2-0?' 50 =& 5';:@9' 5' "94" =9<2' "9< @9B:>< <4@9<B' "9< AA 5 "< C42>' '"9< G<'9< 94B' 40 <4B?' C<-:2' "'0 5< 9<4 ")' "<'9 0B 2-' 4' @A ;@0' =4&9< B<@B<B' "'4C42B 2' 9 5' A042' 42B' "'4""4@>' "9< ' <2@9' "=")' <4:J50<'"=2-':2B<' <2<'=45' 4'" ;A 2-' 2<4' 090B & 5 04"<B' ;' "9< <5'" '"9<4;?* 9<5<" A5' -4G<' =4?' C< <' "9< :5" 42' 4""4@>&C:"&"942>5' "'4' B G 5 2' 5<2'" "'"9<'455 5"42@<&"9<?';4B<"9<'<" <4" 2'- B' B<) 04"<B' C?' "9 5' A<""?'5:@@<55&"9< @9B:>< ;4-2<B' "94" 9<@ :0B' B 5A 5<' = "9 :'" B @:0"?' '"9< <5'" '"9<' <2@9' 4;?)' 9:5' "9 8"<2<B& <4:'@ 2@<2" 4"<B' 9 5' " A5' 2' "9<;BB0<'"9<A04"<4:& =9@9' 5'@0 "9<B' C?' "9<-<4" <5'" 'C< 5C<-)' 2' 42' A<2' 5A4@<' 2' "9<G<?';BB0<'"9< <5'" 5"42B5' "9<G004-<' 9<20 2B<2F' 42B' "9<' <4:'C4 "<B' 2'- :2B'=9@9'=45'=8'4B4A"<B' "'B< <2@<' 42B' -4G<' 0 ""0<' AA ":2 "?' '"9<;42<:G<5' '"9<5A0<2B B' :5" 42' @4G40?)' 9<:5" 42' -<2< 405' A 2"<B' :'" "9< 4592<55' ';4@9 2-' "9 :-9'@ :2" ?'5' "9@>0?' = B<B&C:'" "9< @9B:>< = :0B' 2 '" 0 5"<2)' 2' <@<;C<' &4' B:00& 52 =?' B4?& 9 5' 4 ;?' A0:2-<B' 2" ' "9< <5"& 5 ;<C?' "9< ;42' 9-9=4?' 42B' 5 ;<C?' "9< ' 4B5)' <42=9 0<& <4:&0 G 2-' <2< 8' <2<J5 @<5" 2-0?' A 5"<B' 2' "9< A<2' 5A4@<& ;G<B' "9<B G 5 25' ' @9<A42@<42B' <@48' C4@>' "9 :-9' "9< <5'" = "9' B< 5' "'4""4@>' "9< :5" 425' 2' "9< <4)' 9< A< 4" 2' =45' A< <@"0?' 5:@@<55 :0)' 9<G42' '"9<8@9B:><J5 4;?'@4;<2" '@ 00 5 2' = "9' "9<" A5';455<B' 4'" 9<20 2B<2&=9 0<'5' <4 -:4 B' =45' 4""4@><B' C?' "9< <5'" '"9< <2@9' @<)' 4:-9'" C<"=<<2' "= '0<5&"9< :5" 42' <-;<2"5 5:-<B' C4@>' 2' "9<;5<0G<5F' "9< 42>5' =< <C ><2F' "9< 5 0B<5' 0<B' -9'" 42B' 0<'" 2" ' "9< <5"& @0 ;C 2-' 5"<<A' C42>5' 42B' 400 2-' 2" ' C -5)' <?5 2' "9<9-9' 4B' =45' 2 "9 2-' C:'" 4' @ 2:5<B' ;455' B<4B' 42B' = :2B<B&0 5<9 5<5& = <@><B' @4 "5& 4C42B 2<B' -:25' 42B' 4;;:

"9<?' 94B' <DA<2B<B& 24A4 "< =45' 5" 00' "9< 5" 2-<5"' A =< ' 2' "9<
2" 2<2"') !9 :0B' "9<?' @ 2" 2 :<' "9< 5" : 80<' 'B :0B' "9<?' 4C42B 2'
"& 9:5C42B' "9< ' 5" <2-"9& <5" <' "9< ' 242@<5& 42B' =4 "' A ' C<""< '
" ; <5'g "9' G <=5' =< <' <A <5<2"<B' 2' <4"' 08"4 2& C:"' "' =45' "9<
A<4@<' A4 "?' =9 @9' =45' -4 2 2-' 2' 2: ; C< 5& 2@0:B 2-& 45' "' B B& "9<
=9 0<' C:5 2<55' = 0B)' 9<' @ :2" ?' =45' A455 2-'"9 :-9' 4' @ 5 5.' ;'
"9<' 4- @:0": 40' A945<' "' =45' A455 2-' 2" ' "9<' 2B:5" "B)' 9<' 5"<4 ; '
<2- 2<& =9 @9' 94B' 2@ <45<B' "<2 0B' "9<' ; 42: 4@": 2-' @4A4@ "?' '"9<'
A A:04" 2' 45' =<00' 45' "9<' A B:@ 2-' @4A4@ "?' '"9<' ; 2<5& 94B' @ G< <B'
"9<' - :2B' = "9' 4' ; :0" ":B<' ' 4@" <5' 42B' = >59 A5)' 9<' ; 42: '
= : 2-' 2B:5" ?& =9 @9' 94B' 40 <4B?' 4""4 2<B' ; A "42@<' 2' K K&
B<; 42B<B' 2<=' :"0<"5)' '"9<' ; 4 ><"5' '"9<' @ 0 2 <5' 42B' ; < @4&
"' =45' 2B 5A<254C0<' " ' 4BB' "9 5<' ' : A<& '"9<' ; 5"' A4 "' B 5<B'
B: 2-' "9<' =4)' "' =45' 9 A<B' "94"& = "9' A<4@<& " 59' - B5' = :0B'
2B' "9< ' =4?' " '"9<' 2" 2<2"F ; < @942"5& ; 42: 4@": < 5& 42B' C42>< 5'
C<@4 ; <' 2' @ 25<N:<2@<' 4 B<2"' A4 " 5425' 'A<4@<)
9 5' ; G< ; <2"& =9 @9' C<@4 ; <' -<2< 40 5 "< ' "9j' $<4@<' ' :28G 00<&
=45' 2<' '"9<' @9:5<5' =9 B'0<B' " '"9<' <" < ; <2"' '/ """' A2' '<C :4 ?' Z&
K K& 42B' "9<' ; 4" 2' '4' ; 2 5" ?' :2B<' BB 2-" 2)' ' ;'"9 5'
; ; <2"' 4' C<""< ' <92-'C842' " 'A <G"8' C<"=<<2' 2-042B' 42B)' 42@<F
42B' "9<' ' < -2' 2 5"< & (B' 4=><5C: ?& 2" ; 4"<B' " ' "" & =9 '
94B' C<<2' 5<2"' C?' "9<' ' <2@9' " ' (2B 2' " ' 4 42-<' 42' <D@942-<' '
A 5 2< 5& "94"' "9<' " 59' G< 2 ; <2"' =45' B 5A 5<B& 59 :0B' ' 42@<' C<
4G : 4C0?' 2@0 2<B&" ' < A<2' 2<- " 4" 25)
24A4 "<& 45' =<' 94G<' 5<<2& 405 ' B<5 <B' A<4@<F C:"& 2' B<' " '
94G<' "' 2' "9<' ; 5"' 4BG42"4-< :5' "< ; 5& 9<' A A 5<B' " ' 9 ; 5<0 & /0 8'
A <0 ; 24 ?' 5"<A&" ' @ ; A0<"<' "9<' 5 04" 2' ' 9 5' G40)' '"94"' <2B& 2'
5A "<' ' "9<' <4"?' ' (; 8G 00<& 9<' A <A4 <B' ' 2"< G<2" 2' 2' "9<'
2" 2<2"' C?' @@:A? 2-'A 5 " 25' 4G : 4C0<'C "9' '4""4@>' 42B' B< <2@<&
42B' 5 ; B 2-' "9<' <A:C0 @' = "9' =94"' ; 4?' C< B<5@ C<B' 45' 4' ; <
@ ; A0<"<' 5?5"< ; ' ' :"0? 2-' "5)' ' <5<< 2-' A 55 C0<' @ ; A0 @4" 25'
= "9' <4"' "4 2& 24A4 "<' ; 4B<' "' 9 5' A ; 4 ?' C <@"' " ' @ 2 2"'
"9<' 2-0 59' = "9' 4@@ ; A0 59<B' 4@"5)' 9<' 5"' 5"<A' 2' "94"' B <@" 2'
=45' "9< 422<D4" 2' ' $ <B ; 2")' "9< " ' "9<' = 59<5' ' $4:0' &
"9<' 5B @ 25" ":"<B' @94 ; A 2' ' "9<' / 2-' ' !4 B 2 4& 94B' ; <B'
"9<' @9 <' C5"4@0<' " ' "9 5' 5"<A)' 9<' 54 ' 2@<' :"' ' "9<' =4?&
24A4 "<5 942B5' =< <' <<)' 2' "9< B4?' =9<2' 9<' 9<4 B' ' $4:0 5' B<4"9'
9<' B8B<B' 2' 422<D4" 2& "4> 2-'@4 <" ' 42"<B4"<' "9<' B @:; <2"& 5 ' "94"'
"9<' @ 22<D 2' C<"=<<2' "9<' "= ' <G<2"5' 59 :0B' 2 "' C<' 4AA4 <2")' 2D :5'
405 ' 2 "' " ' 404 ; ' : A<& 9<' 422 :2@<B' " ' "9<' G4 :5' : "5' "94"' 9<'
-42 54" 2' '"9<' @ :2" ?' =45' 9 5' 5 0<' C <@"')' 2' 9 5' 5<@ <"' 25" :@m
" 25' " ' <2< 40 6 : B42& =9 ' @ ; ; 42B<B' "9<' @ A5' ' @@:A4" 2' 2'
$ <B ; 2"& 9<' 9<0B' G< ?' B < <2"' 042-:4-<)' [' 9 5' -42 54" 2&\' 9<'
54 B& [' 5' ; < <0?' 4' 5"' 5"<A' " =4 B5' 422<D4" 2)\' "' "9<' 54 ; <" ; < 9<'
2 ; <B' "9<' 4-<2"5' '"9<' / 2-' ' !4 B 2 4& =9 ' 94B' "4><2' < -<' 4"

)' :)

YZ ' , ' ' '$ % I0 K

"94'" 5:BC" 42' 4BB " 2' " ' 9 5' "< ; " ?' = :0B' C<' @9 < 0?' " ' "9< B<" ; <2'" ' ' 42@<)' [' 9<' <5"4C0 59 ; <2'" ' 5<G< 40 - <4'" $ =< 5' 2' < ; 42?%0 54 B' 9 5' ; 2 5"< ' 4 : - = "a% [' 5' "9<' 20?' A 55 C0<' C4 < ' =9 @9' =<' @42' AA 5<' " ' "9<' 5 : A < ; 4@?' 42B' "9<' <G 0 :" 24 ?' a<40 ' ' 42@<)\

2 2"<B' C?' 5 ' ; 4A?' G40 4 ; C " 25'F 4@<' " ' A@<' = "9' :55 4% =9 5<' 4 ; ' '" %45 " ' ><<A' 9 ; ' 4'" 4' B 5"42@<' 42B' " ' @9400<2-<' 9 5 5 : A <"24@?' ?< ' < ; 42?' 42B' "40?F = "9' $:55 4% =9 ' < <B' 2 "9 2-' C : '" 4' A <@4 :5' 2<: " 40 "?' ' =9 @9' 59<' <DA<@"<B' " ' C<' 942B5 ; <0?' A4 B'F = "9' :5" 4% =9 5<' 20?' C <@'" =45' " ' <G4B<' 42B' =9 ""0<' 4=4? "9<' <4"?' ' (: 28G 00< 3 24A4 "<' 54=' "94'" "9< <' =45' C : '" 2<' "9 2-' " ' C<' B 2<% G a)' " ' ; 4><' "< ; 5' = "9' 2-042B)' 9<' 2<@<55 "?' ' "9 5' 5"<A' =45' C : -9'" 9 ; <' " ' 9 ; ' C?' "9<' ; B4C0<' B @ : 0" <5' ' "9<' = >' =9 @9' 9<' 94B' : 2B< "4><2' 2' "9<' @ : 2" <5' = 2-' 400<- 42@<' " ' ' 42@<)' '" =45' " : <' "94'" "9<5<' @ : 2" <5' =<B' 5 ; <' 0 C< " <5' " ' ' ; @<'F C : '" "9< 5?5"< ; ' ' @ 2" C : " 25' 42B' @ 25@ A" 25' =9 @9' 59<' 94B' @<B' : A 2' "9< ; ' A G<B' ; <' 2< :5' "9 2' "9<' C : B<25' =9 @9' "9<?' 94B' C 2<' : 2B< ' "9<' ' ; < ' :0< 5% 42B' "9<?' =< <' 4 ' ; ' C< 2-' 4'"'4@9<B' " ' "9<' <A : C0 @)' 24A4 "<' 54=' B<4 0?' "94"% ' 9<' = 59<B' " ' C 2B' "9< ' A< A0<5' " ' 9 ; % '" =45' 2<@<554 ?' " ' C<5" =' : A 2' "9< ; ' :5'" 42B' <- :04 ' - G< 2 ; <2")' ' -42 5<' "9<' ' <2@9' <A : C0 R@' " ' -42 5<' 405 ' "9< - G< 2 ; <2"5' ' "40?% 0042B% < ; 42?% 42B' ! = "a< 042B% 2' "9< ' = B5% " ' 5<@: <' "9<' 5 : A < ; 4@?' ' "9<' ' 5'" 25 : 0 2' ' 42@<' "5<0 ' ; B "9<' 5 : A < ; 4@?' ' ' 42@<' :"5 B< 9< ' =2' C B< 5% =45' 4' "45>' =9 @9' @ : 0B' 2 '" C<' B< <2 B)' <' <5 -2<B' 9 ; 5<0 % "9< < <% " '4' " : @<' = "9' 2-042B% =9 @9' 9<' >2<=' " ' C<' A <@4 :5% C : '" =9 @9' 9<' 9 A<B' = :0B' 9 0B' 0 2-' <2 89' " ' <24C0<' 9 ; ' " ' @ ; A0<"<' "9<' = @ 'A 0 " @40 -42 54" 2)

<- " 4" 25' 94B' - <' 2' = "9 :'" 4' C <4>' C<"=<<2' (2B 2' 42B' $4 5F C : '" '" =45' 4"9< ' "9<' 5@ A<' "9<' : 2B< 5"42B 2-' "942' "9< : 2B< 5"42B 2-' "5<0 ' =9 @9' 94B' C8 2' : 2B< ' B 5@ : 55 2)' 9<' " 59' G< 2 ; <2'" 94B% 2' "9<' 5'" 25"42@<% A A 5<B' "9<' A 2@ A0<' '

% 45 "9<' C45 5' ' "9<' :": <' 4 42-< ; <2"F "94'" 5' " ' 54?% "9<' 5 ; A0<' <"<2" 2' C?' C "9' A4 " <5' ' "9< ' <5A<@" G<' @ 2N : <5"5)' 9 5' "9<' ' <2@9' G< 2 ; <2'" < <@"<B% : 2B< ' "9<' A <"<D'" "94'" '" = : 0B' = >' " ' "9<' A < : B @<' ' "9< ' 400 <5% 0042B' 42B' ! A4 2% =9 ' 94B' 0 5'" 5<G< 40 ' "9< ' @ 0 2 <5)' 9<?' 94B' 4 0<B' 405 ' " ' 4- << 2' =94'" =45 ; A0 <B' C?' "9<' ' ! ' 2 # 45' <4@9' A4 "?' 5" G<' " ' 2"< A <'" "9 5<' = B5' 2' "9<' 5<25<' ; 5'" 4G : 4C0<' " ' "5<0)' G<2" : 400?' 4' C45 5 ' 4- << ; <2'" =45 : 2B' 2' [' <@ A @40 @ ; A<254" 2)\' ' 42@<' ; 400?' <@ -2 5<B' "9<' - <4"< ' A4 '" ' "9<' @ 2N : <5"5' =9 @9' 2-042B' 94B' ; 4B<F <4'" "4 2' B B' "9<' 54 ; <' = "9' <5A<@'" " ' "9<' @ 2N : <5"5' ' ' 42@<F =9 0<' 40"4' 42B' -?A'" =< <' <5" <B' " ' "9< ' ; < ' =2< 5% "9<' / 2 -9"5' 42B' "9<' ! : 0"42' <5A8 G<0?)

9<' B 5@ : 55 2' 2' "9 5' N : <5" 2' ' @ ; A<254" 2' 045"<B' "9 : -9 :'" "9<' 5 : ; ; <)' 9<' " 59' G< 2 ; <2'" @ : 0B' 2 '" @ 25<2'" " ' 42' @ 40 <@ -2 " 2' ' "9<' <@<2'" <5"4C0 59 ; <2'" ' "9<' <A : C0 @% C : '" '" >2<=

2@ A 4" 2' ' " 4"' @ : 2" ?(=9 @9' 9< 94B' A <G 80?' B<04?<B)' < 2 =' ; 4B< :A' 9 5' ; 2B' 2 "' " ' 5: <2B< ' "' " ' "9< / 2-' ' !4 B 2 4)' 9< 54 (2' 5A "< ' 9 5' @94 ; A 259 A' ' "94"' 5 G< < -2(=45 @ ; A<00<B' " ' <5"' 54" 5 ' = "9' 4' @04 : 5< C?' =C BC' ' 42@< 42B' : 5" 4' ; : ": 400?' A ; 5<B' ['" ' @ 2@< 2' "9< ; 5<0G<5' 2' <2B0?' 2@< "' = "9' " < 2"< <5"'5 ' 5' 4 <5"?' "9< / 2-' ' !4 B 2 4(42B' " ' " <4"' "9< ; ' = "9' 400 "9< @ 25 B< 4" 2' @ ; A4" C0< = "9' "9< 4@" : 40 5 4"< ' "9 2-5)b

"' 2<<B<B' 2 ' A <5@ <2@< " ' <5<<(<G<2' 5 ' <4 0?' 45' K ("94"' "9 5' : 2 G< 540 A<4@<(= 9 @9' =45' "9< 4B ; 4" 2' ' @ 2"< ; A 4 <5(@ : 0B' 2 "(; ' "5' G< ?' 24": <(C< 42?"9 2-' ; < "942' 4' " 4@<)' : 5" 4' 94B' 5: < <B' "9< <4"?' ' (: 28G 00< " ' C< = : 2-' ; ' 9< F' 42B' "' =45' @0<4 ' "94"' 59< = : 0B' 5< a< "9< 5"' AA ": 2 "?' " ' "<4 ' "' : A)' ' "9< 25" : @m " 25' =9 @9' C<2a0 94B' 5<"' B =2' ' 25' =2' - : B42@< 4"' "9< ; ; <2"' ' 5"4 " 2-' ' (: 28G 00<(9< = "<([' 2' @45< "' 59 : 0B' C< ; A 55 C0< " ' C"4 2' C<""< ' @ 2B " 25' ; ' ' 42@<(=< ; :5"' @ 25 B< (2' @ 2 : 2@" 2' = "9' "9< 2-0 59' G< 2 ; <2"(=9 @9' @ : 5< = : 0B' C<5"' : "9< ' "9< @ ; ; 2' @4 : 5< 8=9<"9< ' " ' <DA 5< :5" 4' " ' "9< B42-< 5' ' 2" 2 : 2-' "9< =4 (' " ' 5<@ 2< " ' 9< ' C?' 4' 5N 4 4"< A<4@< "9< <5A "<2<@<554 ?' " ' <24C0< 9< ' ' <@ G< ' 9< ' 5" <2-"9' 42B' 5 ' < ; 4 2' 4' 5< G @<4C0< 400?' ' 2-042B)\' :5" 4' 94B' 2 "' 0 5"' "9< 9 A<(' 4"' 42?' 4"< "9< B<5 <(" ' B<A G< ' 42@< ' 9< ' 5: 2< ; 4@?' 2' : A<(42B' " ' @< 9< ' C4@>' = " 2' 9< ' 42@ <2"' 0 ; "5' ' <G<2' C<? 2B' "9< ;)' @>2 =0<B- 2-' "94"' ' "9< ; ; <2"' 59< =45' C<4"<2(59< @ ; A ; 5<B' C : "' B B' 2 "' @4A " : 04"<)

<4"' "4 2(' 4240 - :5' <45 25(@ : 0B' 20?' 0 >' : A 2' "9< $<4@< ' ; <25' 45' 4' " 4@<)' 24A4 "< 59 =<B' A04 20?' "94"' 9 5' 2"<2" 2' =45 " ' C' 9< ' ' 9< ' 45@<2B42@?' 2' "9< <B "< 42<42' 42B' " ' B 5A : "< 9< ' 5: A < ; 4@?' 4"' 5<4)' 2-042B' = GBB' 94G< @<45<B' " ' C< 2-042B' 94B' 59< 48<<B' " ' 5: @9' @ 2B " 25)' ' 24" 2' C ; ; 2-' G< ' = "9' 5" <2-"9' 42B' G "40 "?(= "9' 9< ' " 4B " 25(9< ' A455 25(42B' 9< ' A B<(= "9' 9< ' C42>5(98' ; 2<5(9< ' ; 42: 4@": <5(9< ' 5: A< 0: :5' A A: 04" 2(9< ' 0<<"5(9< ' " 4B<(9< ' G45"' @4A "40 42B' 9< ' 2<" 4: 5" C0< @ 8 "(= : 0B' 94G< B<@ <<B' 98' =2' B<5" :@" 2' 94B' 59< - G<2' : A' "9< @ 2"<5")' "' 5: "<B' 9< ' " ' B 5@ 2" 2 : <' "' ' 4' " ; <(" ' 5<@: <' ; ' 4@N : 5 " 25' 42B' -4"9< ' <59' 5" <2-"9F' C : "' 59< >2<=' "94"' 4' <5: ; A" 2' ' "9< @ 2 0 @"' =45' 2<G "4C0<) : "' =94"(4C G< <G ; ?"9 2-' <05<(<2B< <B' "9< A<4@< A <@4 ?5' 42B' 59 " 0 G<B' =45' "9< A< 5 240 4 ; C " 2' ' 24A4 "<)' <G <= 2-' 9 5' A45"' 0 < 4"' ! '" <0<248' 4A 0< 2' 5"BB.' [' ' =45' 9 2<5"0?' A< 5 : 4B<B' "94" C "9' " 9< : ": < ' ' 42<<42B' ; ?' =2' =45' 5<""0<B' 4"' ; <25)))))))' "' =45 ; ?' 2"<2" 2' " ' B<G "< ; ?5B ' <2" <0?' " ' "9< 4B ; 2 5" 4" 2' ' ' 42@<F' 42B' ' C<0 <G< "94"' ' 59 : 0B' 94G< = ><B' = 2B< 5)' ' 59 : 0B' 94G< ; 4B< "9< ; 40 @ 2N : <5"' ' : A<(45' ' @ 2N : < <B' "(' G< ?' 2<4 0?' @ 2N : < <B' "(C?' @< ' 4 ; 5)\' 24A4 "<l5' 042-: 4-< 2' K ' =45' G< ?' B < <2"' [' ' 42@<\' 9< 54 B([' ; 5" C< 5" 4 ; 2-' ! "4"<5(' 59< ; :5"' B 54AA<4)' ' = 00 ><<A' "9< A<4@< 450R ; -' 45' ; ?' 2< 8C : 5' ><<A' "F' C : "' "9< 4BG42"4-< = 00 C< ; 2< "' "9<?' @< ; < " ' "4>< : A' 4 ; 5' 4-4 2' C< < "9<?' - = @)' 2)

B<5 < ' -4 2F 42B& C?' B<- <<5& "9< =4 5 ' 9C< 4" 2' =< < ": 2<B 2" &
=4 5 '@ 2N:<5")' 9< 2G<2" 2' 94B' " <4"<B' "9< 24" 25' =9 @9' 5:Cm
; ""<B' " ' "' = "9' 4' @ ; "4 2' B8 <<' '-<2< 5 "?F "9< <@" ?& 2' "5
B<40 2-5' = "9' "9< ; & B 5A04?<B' 20?' - <<B' 42B' @ :<0"?)' 0<2< 405 42B
J4B ; 2 5" 4" 5' G400<B' <4@9' "9< ' 2' "9< 4 '" ' ; 4> 2-' =4 ' 4'" 4' A '"
24A4 "<& B 2 2-' 9 5' 5'" "40 42' @4 ; A4 -2& 59 =<B' 4' 5A<@ 40 4A" ":B<
2' "9 5' B <@" 2)' '" 20?' B B' 9< 0<G?' <2 ; :5' @ 2" C:" 25' :A 2'
"9<' " =25& 5<N:<5" 4"<' "9<' <5"4"<5 42B' - B5' ' "9<' @0< -?& 42B' N:4 " '
9 5' 5 0B < 5' :A 2' "9<' 294C "42"5& C:'" 9<' 5<2'" " ' $4 5' <G< ?"9 2-' =0:B'
@ :0B' C<' @4 <B' ' 42B' =9 @9' ; -9'" C<' :5< :0)\' < G< ' 9 5' @< 5&
4-<2"5' 42B' @ ; ; 55 2< 5& 2 '" @ 2"<2'" = "9' <2 @ 2-& <N: 5 " 25' 2
C<940' ' "9<' 4 ; ?' ' "9<' <@" ?& A 004-<B' ! ' 594 ; <0<550?' 2' "9< '
=2' 4@@ :2'" "94'" 24A4 "<' =45' @@45 ; 400?' @ ; A<00<B' " ' 2"< G<2<)
A 2-' "9<' 5<@ 2B' "40 42' @4 ; A ; -2' "9<' A< A0<' =< < 5:C <@"<B' " '
"9<' 54 ; <' <D4@" 25F 42B' 5 2-5' " >' A04@<' <G< ?=9< < 4 "< ' "9<' 4 G40
' "9<' ' <2@0:' 24A4 "<& 9 =<G< & 4""< <B' 9 ; 5<0' "94'" 9<' = :0B
C<' 4C0<' " ' = 2' G< ' "9<' "40 425' C?' 4 ' 8<<@9<5' 42B' A ; 5<5' ' - B'
- G< 2 ; <2")' 2<' ' "9<' @9 < ' ; 5"4><5' ' "9<' <@" ?' 94B' C<<2'
"9<' A< 5<@:" 2' ' <0 - 2)' 9<' ' 5'" 25:0& 2' "9<' "9<' 942B& 45
5 2' 45' 9<' <2"< <B' "40?& B<@04 <B' 9 ; 5<0' "5' B< <2B<)' 2' 400 9 5'
A @04 ; 4" 25' " 5' 4BG @<' =45' <A<4"<B.' [(<'" ? : ' A <5"5' 54?' ; 455F
A =< ' 0 <5' = "9' "9<' A<BA0<F ' "9<?' = 59' ' <0 - 2& <5A< '" "9 ; '
= 59<5)\' 9 5' <5A<@'" ' <0 - 2' =<2'" 4' 0 2-' =4?' " =4 B5' 5 ; "9 2-'
B =2' "5B 42' AA 5 " 2)' 2' <2" <0?' 2<=b' 5<@" 2' ' 4B9< <2"5' =< <
-4 2<B' G< 8"9<' ; BB0<' @0455<5' 42B' " <' A< A0<)' ' <@ 2@ 0<' "9<'
(C< 405 '= "9' "9<' 2<=' # 24A4 "<' CC45"<B' 9<' C<2< "5' ' "9<'
' <G 0:" :& @ G 0' <N:40 "?' 42B' "9<' 5:AA <55 2' '&4C:5 5Q42B' A G 0<-<5)
' <' 0<B' "9<' A4" "5' " ' C<0 <G<' "94"& C?' ; <425' ' "9<' 25" ":" 25' = @9'
=< < " ' C<' - G<2' " ' "40?& 9<' =45' A <A4 2-' "9<' =4?' ' 24" 240 :2 "?&
=9 @9' 94B' 40 <4B?' C<<2' C :-9'" 4C :'" 2' ' 42@<' C?' "9<' @ <4" 2' '
4' 2 "? ' A 2@ A0<5' 42B' ' 0<- 504" 2& ' "9 :-9'" 42B' 5<2" ; <2" 3 "9<'
" <' =9 @9' 2<G<' ; 05' " ' C 2B' " -<"9<' 400 9 :242' @ ; ; :2 " <5)' <' "9:5
0<B' 400 A4 " <5' " ' @9< 59' "9<' 00:5 2' "94'" 9<' 2<=' A 0 "?& 940' 24" 240
<A:C0 @& 940' A "<@" 4"<& = :0B' <G<2":5B0?' 0<4B' "9<;' " ' "9<' :00 A 5m
5<55 2' ' "9<' 2B<A<2B<2@<)
"' =45' @< "4 20?' 2 ' A4 " ' 24A4 "8' 5@9<; <' " ' A ; "<' 8 42'
8 "G)' "' 4 ; A ' ' ; & 2' 5A "<' ' "9<' = 59<58 ' < <@" ?&
8A04 2 2<B' "9<' @ <4" 2' ' 4' 5" 2-' <A:C0 @' 2' "9' "40?& 9<' 9 ; 5<0'
94B' C<<2' "9<' < ; 5'" " ' ; :" 04"<' "94'" - <4'" 5@9< ; <' C?' "9<' 5 ; <2B<'
& ' <2 @<& 42B& 04"< & C?' "9<' 422<D4" 2' '$ <B ; 2")' ' <24C0<' 9 ; ' "
' C<@ ; <' ; 45"<' ' ' "40?& '" =45' 2<@<554 ?' "94'" "9<' @ ; " ?' 59 :0B' C<'
5 8 '" :A&& 0:' 9 5' A G4"<' @ 2G< 54" 25' ?:"9' ' <2@9 ; <2' 9<' B<@04 <B'
"0 ; '" "9<' "40 42' A< A0<& <2< G4"<B' C?' @<2":' <5' 'C 2B4-<& =45' :2 ""<B'
' 0 C< "?' 42B' 2B<A<2B<2@<)' ' "40 425' 9<' 9<0B' :'" "9<' 5A0<2B B'
A 5A<@'" ' 4' :2 "<B' "40?F C:'" 9<' =45' =<00 4=4 ' "94'" "9<' C:0>' ' "9<

24" 2& ><<20? 2"< <5"<B 2 0 @40 42B ; 42 < A40 ; 4""< 5 42B 4"= 9<4 "= 2B < <2"= " ; 5 - G< 2 ; <2"& = :0B 5 2< ; 04"< ; C< -4 2<B " ' 42@< C? "9< B 5A<25 2-; <N:40 :5" @< 42B C? 4 = 5< 42B @4 < :0 4B ; 2 5" 4" 2) "= =45 = "9 "9<5< G <=5 "0 4"= 9< -42 5<B <B ; 2"& (-: 4& 42B "9< 540A 2< <A:C0 @F

9< :": < $ <B24A2 8)98 C<<2 A G 5 2400?5<""0<B C? 4 B<@ << A 0 K& ! & =9 @9 ; 4B< "= 4 $ <2 ; 0 "4 ? A G 2-) ? 4 B<@ << ! <A"< ; C< K& K & "9< 4B ; 2 5" 4" 2 =45 ; 4B< @ G 0 25"<4B ; 0 "4 ?F 42B "9< @ :2" ? =45 B G B<B 2" 5 D B<A4 " ; <2"5) 9 5 K 2@ A 4" 2 = "9 ' 42@< 94B C<<2 0 2-; <5<<2F 42B "9< A< A0< 4@@<A"<B "= = 00 2-0?) ' @<B& 4 "< "9< :5" :55 42 2G45 2& " 5:C ; "= " "9< <D@<55<5 4 <4@" 2 =9 @9 94B 2 "= <G<2 <5" <B "9< < -2 2-; 4 ; 0?F 2G4B<B 2@< ; < C? "9< ' <2@9& =9 ; "9<? 94B 94 0<B 45 0 C< 4" 5F 42B - G< 2<B 5:C5<N:<2"0? C? ; ; 55 2< 5 =9 =< < 94 ; A< <B C? 2@<5542"= !242@ 40 B @ 00 <5F "9< $ <B ; 2"<5< B<5 <B 2 "9 2-; 5 ; ; :@9 45 A<4@<& <G<2 4"= "9< <DA<25< "9< 2 42 240 2B<A<2B<2@<) $: 2-; 4 ?<4 42B 4 940 "9<? 94B C<@ ; < 4@@:5" ; <B " "9< ' <2@9 4B ; 2 5" 4" 2& 42B 94B :2B "= " C< 5"= 42B @4 < :0 "9< -<2< 40 - BF "9< @942-< ; 4B< C? 24A4 "< B B 2 "= 4 <@"= "9< ; F "= =45 ; < <0? 4 5:C5" ":" 2 "9<A< ; 42<2"= "9<A G 5 240) ' "9< <5"& "9<? =< <C? 2 ; <425 C4B0? ; B< ' <2@9 "0<) - @:0": <& =9 @9 94B 5: < <B ; :@9 ; "9< =4 5& =45 -<2< 400? <5: ; 8F ; 42:m 4@": <5 42B @ ; ; < @< A 5A< <BF "9< A< A0<& =9 @ :0B 2 =A:5:< "9< @400 2-5 2 A<4@<& C<@4 ; < <@ 2@0<B " 4 =9 R9& "= B B i2 "= - G< "9< ; 0 C< "?& 4"= 42? 4"< <25: <B "9< ; 5<@: "? 42B 4 @< "4 2 B8 << @ ; ")

%9 0< 24A4 "< =45 2@ A 4" 2-$ <B ; " ; "= = "9 "9< ' <2@9 <A:C0 @& "9< - G< 2 ; <2"= "9< (-: 42 <A:C0 @& :2B< =<2"= ; A "42"= @942-<5 4"= 9 5 942B5) 9< <D 5" 2-; @ 25" ":" 2 "9< 04""< ; @ :2" ? =45 4 @ A? "9< ' <2@9 @ 25" ":" 2 "9< = "= A G B<B - G< 2 ; <2"= C? 4 <@" ? = "9 "= <0<@" G< 94 ; C< 5) 9 5 @ 25" ":" 2 24A4 "<4C 0 59<BF 42B& 2 @ 2@< "= = "9 !40 @<"" & "9< ' <2@9 <A <5<2"4" G< 4"= <2 4& 9< @ 8 "8 4 2<=' 20 - G< 2 ; <2" @ ; A 5<B 4 !<24"< 42B 4 -<& =9 =45 " C< 9 5 2 ; 2<<) 9< @942-< =45 ; 4B< = "9 :"= AA 5 " 2F 42B "9< 2<=' 4:"9 " <5 " > @< 2 6:2< W&K) ' ; "94"= " ; < =4 B& "9< <A:C0 @ <2 4 =45 4 B @0< 25" : ; <2"= 2 24A4 "<5 942B5& 42B @ 2" 2:<B " 0<2B 9 ; :5< :05:AA "= 2 9 5 5" : --0< = "9 <4"= "4 2 :2" 0 "5 2@ A 4" 2 = "9 "9< ' <2@9 ; A < 2 K U)

2 "9<Q 540A 2<& 24A4 "< 94B 2 B @:0"? 2 <<5"4C0 59 2-; 9 5 4:"9 "?F 8:5" 42 00 :54-< 94B& @4:5<B "9< ' <2@9 " C< <m ; < ; C< <B = "9 <- <") "= 0<55 2"<2"= "942 "9< ' <2@9 94B C<<2 2 4C5 C 2-; "9< @9<5 "9< @ :2" ?& "9< :5" 425 94B ; 4B< "9< ; m 5<0G<5 <5A<@ 400? B :5 C? "9< ; <42 G<2-<42@< =9 @9 "9<? = <4><B 2 "9 5< =9 94B 9 ; < @< :2B< "9< <A:C0 @) '4 5<< 2-; <2 94B

)) 3

2 '" C<<2' =42" 2-' 2' :5" 4' " ' =4 2' "9<0 G< 2 ; <2'" 4- " 25'" "9<5<
' <D@<55<5& C :'" "9< ' =4 2 2-5' =< < 2' G4 2)' 8$4" "5' 94B' C<<2' A:C0 B?'
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94B' C<<2' <<5"4C0 598

2' "5' C8 22 2-5& 9 G<G< & ' <2@9' :0<' A G<B' 94 59' <2 :-9)'
< <' '" C"4 2<B' 4' <-:04 ' A 0 "?& "9<' 540A 2<' 94B' " ' 5:C ; '" " '
4' $ G 5 240 G< 2 ; <2'" =9 @9' 0 "< 400?' 5:@><B' "9<' @ :2" ?' B ?)'
24A4 "<' 94B' 2B<<B' A ; 5<B' " ' < -42 5<' "9<' <A:C0 @' 2' 4@@ Bm
42@<' = "9' "9<' A 2@ A0<5' =9 B9' 94B' " : ; A9<B' 2' ' 42@<' ;' : ; 4 <3'
[<0 - 2& <N:40 "?& 42B' - B' B<)\' ' ?<4 & 9 =<G< & =45' " ' A455
C< <' "9<' A ; 5<0 =45' :0 00<BF' 42B' B: 2-' "94'" " ; <' "9<' 540A 2<'
=45' - G< 2<B& 5'" ?' 4' ' <2@9' 4-<2"& <2< 40 $<" <"& 4' ; <' =4 '
; 2 5"<' ' "9<' <@" ?F' "9<2' C?' 4' @ ; ; 55 2' ' 2 2<& =9 @9' =45
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4BG @4"<5& ! ; ; 4 G4& 5@ 2" & 42B' :-4)' 2' 4BB " 2' " ' "9 5
<D<@:" G<& "9< <' =45' 4' (<- 504" G<' 55< ; C0?' ' " ! # "9<' ; < ; C< 5
' =9 @9& 0 ; "<B' 2' 2: ; C< & 94B' C<<2' 5<0<@"<B' C?' 24A4 "<)' 9 5'
55< ; C0?' =45' A =< 0<55F' 5 ; B' "9<' @ :2" ?' 04?' 4'" "9<' ; < @?' ' "9<'
: ; G 4"<& "= ' ' =9 ; & ! ; ; 4 G4' 42B' :-4& - G< 2<B' = "9' "9<'
5 0<' C <@'" ' <2 @9 2-' "9< ; 5<0G<5' 4'" "9<' <DA<25<' ' "9<' !"4"<)' 9<'
@ 2B " 2' ' "9<' 540A 2<' =45' ' 5 ; <' " ; <' A " 4C0<:' @ ; A<00<B&
4@@ B 2-' " ' "9<' A 2@ B<' 04 B' B =2' C?' 24A4 "<& " ' 5:AA<B' "9<'
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; 2"90?' A4?; <2'" ' K & ' 42@5' 2" ' "9<' ' <2@9' <45: ?)' ' "9 5'
9<4G?' @94 -<' =<' <' 4BB<B' 22: ; < 4C0<' 42B' 2<G< <2B 2-' <N:5" 25' 2'
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'" =45' 9 -9' " ; <' ' 24A4 "<' " ' 2"< G<2<& ' 9<' =<' <' 2 '" " ' 0 5<'
"9<' : "5' ' 9 5' @ 2N:<5")' "< ' "9<' 5 -24": <' ' "9<' <4"?' '
(:2<G 00<& 9<' 422 :2@8' " ' "9<' 294C "42"5' ' "9<' 540A 2<' "94'" 9<'
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94B' 2 ' 2"<2" 2' '0<4G 2-' " ' "9<' X ; C4 B5' "9<' "45>' ' 4 ; 2-' "9< ' =2'
@ 25" ":" 2)' '" =45' 4'" $4 5' "94'" "9<' 25" ":" 2' '"9<' 540A 2<' =45'
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K K& =9<2' "9<' B 4 '" =45' <4B?& 24A4 "<' 5:2A2 2<B' : ' ' "9<' ; 5"
@ 25 B< 4C0<' @ " a<25' ' "9<' <A:C0 @& 4 <5@40@9 & <0a & 0B 2 & 42B'
! < C<00 2 & 5:C ; ""<B' "9<' <5:0'" ' 9 5' 04C : 5' " ' "9< ; & 42B' 45><B' '
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" ! ' 4'" 042& =9 @9' 4B A"<B' '" = "9 :'" 4 ; <2B ; <2")

bC<@4:5< 9< 94B' :2B'2 ' 2< 4; 2-5'' "9<;' =9 ' 94B' 5: @<2'' @04 ;5' 2' A A:04 ' <5"<<;)(42B' =9 ' 94B' <2B< <B' 5< G@<5 " ' 9 5' @ :2" ?' 5: @<2"0?' ; A "42'' " ' ;4><' 9 ;' = "9?' ' "9< @9 <' ;4-5" 4@?)\' 8 '' " ' 94G<' 4' $ <5 B<2'' ' "9< ' =2' 24" 240 "?' =45' 4' :B< B 5m 4AA 2";<2'' " ' "9<' (;C4 B5)F' C:'' 24A4 "<& C?' =4?' ' @ 25 04" 28' 422 :2@<B' 4'' "9<' 045'' 5 "" 2-' ' "9< ;;55 2&642:4 ?' U&K &"94'' ;' "94'' " ;< =4 B' "9< 24;< [' "40 42'b' 59 :0B' C< 5:C5" ":"<B' ' "94'' '[' 540A 2<)\' 9<5< = B5' =< < <@< G<B' = "9':242 ;:5' 4AA04:5<) B' "9<?' 2 '' A @04 ;' " ' "9< =9 0< ' "40?' "94'' "9< <A:C0@' ;-9'' C< =<0@ ;8' 45' "9< 5'' 5"<A' " =4 B5' 24" 240' :2 "?&" =4 B5' "94'' / ' B # ' ' ! #=9@9' "9< 'A <'' 0 < '94B' <" 0B'g <0a' =45' 4'' "9<' 54;<" ;<' 4AA 2"<B' @< $ <5 B<2"&= "9' "9<' "45>' '-G< 2 2-' 2' 24A4 "<l5' 4C5<2@<)

9 5' 5'' <DA< ;<2'' ' 42' "40 42' <A:C0@' =45& 4'' 0<45'' 4'' "9< :"5<"& 4 0?' 5:@@<55 :0)' <0a& 4' ;42' ' 4' -<2"0<' 42B' @ 2@0 4" ?' B 5m A 5" 2& =9 ' C<0 2-<B' " ' 42' 0B' (;C4 B' 4;0?& 42B' @4 <B' - <4'' =< -9'' 2' "9<' @ :2" ?& 5:@@<<B<B' C?' 9 5' A< 5 240' 2 0:<2@<' 2' 5; "9 2-' B =2' " ' 4' - <4'' <D"<2'' "9<' AA 5" 2' ' "9<' A G 0<-<B' @0455<5 3 "9< 2 C 0 "?' ; B' "9<' @0< -?)' 9<' @0< -?' 2' A4 " @:04 & 5B <4B?' <455: <B' C? 24A4 "<& =< < @ ;A0<"<0?' = 2' G<)' 9< =<00 " B ' @0455<5& =9 ' 94B' 9 "9< " ' 5: < <B' 5<G< B?' ;' "9< B<A <B4" 25' ' <2B ' 4-<2"5' 42B' "9< 2@<5542'' <N:5" 25' ;A 5<B' C?' "9<' 4 ;?& =< < 94 455<B' 2 ' 0 2-<) 9< 5:AA '' ' "9<' @ A5' ' @@:A4" 2' =45' 4 42-<B' ' 2' 4' B< 2 "< C45 5& 5 ' "94'' "9<' C: B<2' @ :0B' 2 '' C< 2@ <45<B' C?' 4 C " 4 ?' B<;42B5) ;' "9<' A 0 " @40' A 2'' ' G <=' 405 & "9< 5 ":4" 2' 5<<;<B' 4'' 5'' " ' A ;5< 4 0?)' <0a& '' 5' " :<& B B' 2 '' 594 < 24A4 "<l5' B<45F' 9< %45 4' (C< B& 42B' = :0B' 94G<' A < < <B' 4' 25" ":" 2' 2' "9< 2-0 59' ; B<0F' C:'' 9< 4B;2 5"< <B' = "9' 5" @'' ;A4 " 40 "?' "9< 25" ":" 2' =9 @9' 94B' C<<2' - G<2' " ' 9 5' @ :2" ?)' < <@< G<B' G40:4C0< 455 5"42@< 2' 9 5' "45>' ;' "9< "@ 405 =9 ;' 24A4 "< 94B' @9 5<2& A4 " @:04 0?' ;' $ 24& "9< 4;:5' ;2 5"< & 4' G< ?' 4C0< ;42)' 2' 0<55 "942' 4' ?<4 ' 40' "9< @9 < ' B<A4 ";<2"5' ' 5"4"<' =< < -42 5<B' 42B' "9< ;4@9 2< ' - G< 2;<2'' =45' A:'' 2" ' = > 2-' @ 2B " 2) B< ' =45' <<5"4C0 59<B' 2' "9< 242@<5F' 4' 24" 240' 4 ;?' =45' @ <4"<B' 42B' ;0"4 ?' 5@9 05' ' "9< 25" :@" 2' ' 0@< 5' =< < A<2<B' 4'' $4G 4' 42B' B<24) $:C0@' 25" :@" 2& =9 @9' ; B< ' "9< :5" 425' 94B' 400<2' 2" ' 2<-0<@"& ;4B< 4' <59' 5"4 "F' 42B' "9< :2 G< 5 " <5' ' 0 -24' 42B' $4G 4' =< < < A<2<B)

:'' "9<5< 4:5A @ :5' C<- 22 2-5' 0<B' 2 ' : "9<) <0a' B B' 2 '' <@< G<' "94'' 5:AA '' ;' "9< A< A0< =9 @9' ; -9'' 94G<' - G<2' B: 4C0 "?' " ' 9 5' = >) 9< 24" 2& =9 5< ; 40' 42B' 24" 240' :2 "?' 9<' 5" G<" ' C 2-' 4C :"& =45' 5" 2-0?' A4 " @:04 5'' 4'' 9<4 ") 9<' 0 @40' 5A '' ' "9< " =25' <C<00<B' 4-4 25'' "9<' B<@ 5 25' ' "9<' @<2" 40' 4:"9 "?) 9< !"4"<5' " ' "9<' 5 :"9' ' "9<' $ ' =< < ;A4" <2'' ' "9<' 5:A <;4@?' ' 042& 42B& 2' "9<' = B5' ' "9<' @< $ <5 B<2"& =< <[' @ 25"42"0?' 942>< 2-' 4 "<' <B< 4" 2)\' ' B<G " 25' " ' "9<' @ ; ; 2' @4:5<' "9< < =45' 2 2<F' <4@9

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9 5' 2"< G<2" 2' ' ' 42@< 2' 0042B' " >' A04@< 20?4' <=' B4?5 C< < "9< 5 -24" : < ' "9< $ <0 ; 24 <5' ' (2B 2& 42B' @ : 0B' 2 "' 4 0 " ' C< B 5A0<45 2-' " ' "9< " 59' G< 2 ; <2")' %45' "' 4' A <0 : B< " ' "9< 422<D4" 2' ' "9< @ : 2" ?& 2' 5A "< ' "9< <2-4-< ; <2"5' =9 @9' 24A4 "< 94B' <2"< <B' 2" '4"' (: 2<G 00< ' 42' <2N : ?' ; 4B< 2' "9 5' 5 : C <@"' C? "9< " 59' 4C 2<"' "9< ' 5"' 25 : 0' <A0 <B' ['"94"' <G< ?' ! "4"< 94B' 4 -9"' " ' -42 5< "5<0 ' 45' "' "9 : -9"' 0"F' "94"' 0042B' =45' <<F' 42B "0 ; "& 0 >< "9< "9< ' $ =< 5& 59< 94B' 9< ' <A <5<2"4" G< 4"' $4 5)\' 9 5' <A0?' @ : 0B' 2 "' B<@< G< 9< " 59' 0 G< ; ; <2")' 9<?B B' 2 "& 9 =<G< & A <55' "9< A 2"& A C4C0?' 9 A 2-' "94"' 24A4 "<& " <B' B =2' 45' 9< =45 C?' "9< 8 "?' ' (: 2<G 00<& 42B' C?' " @0< ' ' "9< 2G<2" 2' ' "9< 4- : <& =9 @9' C : 2B' 9 ; & 2' "9< @ 2@0 : 5 2' ' A<4@< = "9' 2-042B& " ' <G4@ : 4"< 0042B& = : 0B' < 4 2' ; ' : "9< ' 2"< G<2" 2)

2' 0042B' "9< ' &O ' ' ! 8"< ; C< ' K &K K& =45' <@< G<B& 2 "' = "9' "9< <2"9 : 5 45 ; ' B<5@ C<B' C?' ! 8 ; 2G 00< 2' 9 5' B<5A4"@9<5' " ' $4 5& C : "' = "9' <5 -2<B' 2B < <2@<)' 9< ; 5"' "94"' @ : 0B' C< 54 B' =45& "94" "9 5< ' "9< 24" 2' =9 ' 0R ; -<B' ' <A 5< 54=' 2' "' 5 ; < 9 A< ' 4 A< B' " 42N : 00 "?)' 9 5' 9 A< C<@4 ; < 40 ; 5"' 4' @< "4 2"?' 4 "< ' "9< 5 -24" : < ' "9< <4"?' ' ; <25)' ' <<B ; ' ' 24G -4" 2' <2@ : 4-<B' "9< : "@9' " ' 0 >' =4 B' " ' 4' <2<=40' ' "9< ' " 4B< 42B' " ' "9< <2B' ' "9< <G 05' =9 @9' 94B' 4@@ : ; : 04"<B' B : 2-' 2 2< ?<4 5' ' =4)' "' "9< 54 ; < " ; <& "9< 5" : 80< =9 @9' 94B' 9 "9< " ' 4-<B' C<"=<<2' "9< 42- 5'5 42B' "9< $4" "5' =45' "< ; 24"<B' C?' "9< 4@" 2' ' "9< $ 2@< ' 42-<& =9 & 2' C<940' ' 9 ; 5<0 ' 42B' 9 5' 9< 5& <2 : 2@<B' 400' @04 ; 5 " ' "9< ! "4B9 0B< 59 A& 42B' 4@@<A"<B' 2' <D@942-< "9< - 42"' ' "9< 5<@ : 04 5<B < ; 42' C 59 A @' ' ' : 0B4& 42B' "9< 4CC<?5' ' G<?' 42B' %< 2-4 "<2)' 00' "9 5' 5<< ; <B' " ' A ; 5< 4' C -9"< ' : ": <)

9<5< 9 A<5& 9 =<G< & =< < 'B ; <B' " 'B 54AA 2" ; <2")' 9< G< 2m ; <2"& @ ; A 5<B' ' ; <2' ' ; B : C"<B' 9 2<5"?' C : "' 04@> 2-' 2' 4C 0 "?' 42B' @ 24-<& =45' 2@4A4C0< ' 5<< ; 2-' "9< <A 5< 42B' A 5A< "?' ' "9< @ : 2" ?)' 9< - 4G<5"' N : <5" 2' =9 @9' "' 94B' " ' B<40 = "9' =45 "9< N : <5" 2' ' 242@<)' 9< < =45' 4' B< @ "' ' U & & ' 0 25F' 42B' "9< : 2@0' 4B A"<B' ; 5"' : 2A A : 04 ' ; <45 : <5' " ' ; 4>< "' - B)' 9<? ; A 5<B& '<D4 ; A0<& 4' "4D' 'Z#A< ' @<2"& 2' A A< "?' 42B' 'K ' A< ' @<2"& 2' 2@ ; < ' < -9"' ?<4 5)' 9<?' 59 =<B& ; < G< & 2" 0< 42@< " =4 B5 6<=5' 42B' 4"9 0 @5& =9 & 45' : 2B< ' "9< ; < ' # =< < <D@0 : B<B' ; ' A 0 " @40 0 <F' 42B' "9 5' A 0 @?' "4"<B' "9< (C< 405)' "9< ' ; <45 : <5 40 <24"<B' "9< 5? ; A4"9 <5' ' "9< ' 4 ; ?F' 42B' 4' @ 25A 4@?& 5" <B' : A' C? <2< 405' 4<2B<05' 42B' : ; 2@<4 : & G< ?' 2<4 0?' 5 : @@<<B8)' "' =45' 20? B : <" ' "9< 2"< < <2@<' ' 24A4 "<& =9 ' ; 424-<B' " ' <B : @<' "9< 5 0B < ?' " ' B< & "94"' 4' <59' !% ,1 (' B B' 2 "' "4>< A04@<)

) 6% ?8 ; ' ' ' 4 # +! ' ' / WK

9< :A": < ' "9< 8 <4"? ' ; R85 2400? : 2<B " < 9 A<5 ' "9< :"@9) 2 6:2< ! & K & 24A4 "< ; A 5<B 2 "9< ; & 2 4BB " 2 " ' "9< ; 4 2"<242@< ' "9< ' <2@9 4 ; ? ' @@:A4" 2& "9< B:"? ' A G B 2-' K & ' ; <2& ' "" 2-' :"" G< ; <2 =4 ' 42B G< -4"<5& 42B ' C:0B 2-' " 425A "5 42B C 4"5 5: @<2"" ' "9< 4@@ ; ; B4" 2 ' ; < "942 & ' ; <2) 9 5 =45 " ' ; :@9 ' 2 @ :2" ? =9 5< 242@<5=< <D94:5"<B) C< G< 2 ; <2"&B G<2 2" '4'@ ; < & 4""< ; A"<B " ' <G4B< "5<2-4-< ; <2"5& 42B " ' B<04? "9< :"C <4> ' 9 5" 0 " <5 = "9 <4" "4 2) 24A4 "<& =9 ' - '" = 2B ' "9<5< ; <45: <5& A A 5<B 2 K ' " ' C 2B 42B ; < @0 5<0? " ' ' 42@< C? A04@ 2-& 45 9< 54 B& [4 ; 42 ' @94 4@"< \' 4'" "9< 9<4B ' 4 4 53 9< 94B 40 <4B? !@9 ; ; <0A<22 2@> 2 9 5 <?<3 8C:" "9< ; 455 ' C:5 2<55 2 9 5 942R1 @<B 9 ;' " ' B< < ' "9< <D<@:" 2 ' "9 5 A042)

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W 6+ + 3 !+ / I
3 8 8 8 8)
:A = "9 42B "94" "9< <N: B" 25 ; A 5<B A 2 "9< ; @4:5<B - <4"
B 5@ 2"<2"F C: " ; KY8 2=4 B "9<? 94B 4 <-: 04 42B B<%"<
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C? "9< 4 B 24A4 "<& 5 ; 04 4-- 42B 5<; <2") 2 "9< "9< 942B&
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K K _ " # $ % , W

@04 ; 5 =< < B 5 <-4 B<BE8 "9< ; A < 44B "9< 4"9 0 @ <0 - 2: = :0B 40 >< A< 59)

<"=<<2 "= <D" < ; <5 3 8'9< A4 "? =9 @9 "8 A"<B "9< A 0 R8 =9 0<m 540< 5<@:04 54" 2 42B "94" =9 @9 <A:B 4"<B " 40" -<"9< 3 4 "9 B A4 "? 5A 42-: A "9< A4 "? 0 ; "<B 5<@:04 54" 2 9<4B<B 0H? :5" 4 42B !5 2?) 9<5< "9 << G <=5 S%< B<C4"<B 4" - <4" 0< 8 9 F 42B 45 2 2< =45 A <A4 <B " ; 4>< @ 2@<55 25 B 5@:55 2 20? 5< G<B " 2"<25 ? "9< B G< -<2@<) " 20? 94B "9< E 2@ A0< <B G 5 2 " C< B<@ B<B C:" 405 "9< N:<5" 2 "9< 4 ; :2" "9< 2B< ; 2 " <5 "9< ; m 5<0G<5) 9< G40 ? =45 C ""< F :5" 4 42B $:55 4 =< < A<@:0 80? <40 :58 <5 <B) "9< 2< " ; < "5<< ; <B ; "0 9 8 8 $ =< 5 94B @ ; <" 42 :2B< 5"42B 2-= "9 "9< C <@" 5<""0 2-400 ; 4""< 5 C<"=<<2 "9< ; 5<0G<5 2 4 <2B0? =4?) 9<? <00 :"9 =<G< G< "9< <0<@" 4"< 0 -2< 42B "9< C B A 0@ " A5"< F 42B "9< B 5@:55 25 2 "9< <" - <= ; < 42B ; < G 0<2") G<2":400?% 24A4 "<% 2 @ 2@< " = "9 " < 54 0<D42B< % <5 0G<B " 2"< G<2<)

24A4 "< 94B 0 2-< C<<2 =4 " 2- "9 5 AA ":2 "? " ; <BB0< 2 "9< 4 4 5 < ; 42?) 45"< "9< 0< " C42> "9<)9 2<% 9< @400<B " ; 2B "9< 4BG @< <22<% [? : = :0B B< <2B "9< 0< " C42> "9< 9 2<% @ 55 " "9< -9")\ @@ B 2-0?% =9 0< B< < 2-"9< A <@" @ <4" 2-% 4 "< 4a4 2!5 B<4% 4 (<4-:< "9< 9 2<% 9< 4 ; <B 4" <5"4C0 59 2- 2 "9< -9 " C42> <2B0? $ =< 5 =9 = :0B ; :2" - :4 B 9 ;) 9< 54 % 2 9 5 5 B<% 2G 0B2-"9< <4"? <5@9<2 KYYWE% B<@04 <B "94" 2 <4 42-< ; <2" < ; 42 "< " ? @ :0B "4>< A04@< = "9 :" 9 5 A4 " @ A4" 2) 24A4 "<% =9 =45 2 " 5 ? " 455 @ 4"< 4 - <4" $ =< = "9 "9< " 425 ; 4" 2 =9 @9 9< @ 2"< ; A04"< 2 < ; 42?% -4G< 4 @ B 40 =<0@ ; < " "9< :55 42 G< ": <5) 9< 4@@<A"42@< 0< " 9 ; 5" 00 ; 45"< "9< 5 ":4" 2 42B " =45 9<% 2 "9< 045" <5 "% =9 B<"< ; 2<B "9< 4AA " 2 ; <2" A< "? 2 < ; 42?)

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))

G ":<' '"9<' 2<='4 42-< ; <2"&4' ; 4 "?' ' Y' " ')' 9 5' @942-<' <2"4 0<B' "9<' B< <4"' ' "9<' :5" 42' 42B' "9<' " : ; A9' ' "9<' $:55 42' A4 "?)' 2' 5A "<' ' "9 5' AA 5 " 2&"9<' 2<='; A< 40' 25" ":" 2'@4 ;<' 2" ' @<' 2' K F' 42B' "' =45' B<5" 2<B' " ' 045"&2' <55<2" 405&:2" 0 "9<' @ ; A0<"<' B<5" :@" 2' ' "9<' 0?' ; 42' ; A <' 2' K)

?' "9 5' B<@ 5 2' ' "9<' <"' > ! ' "9<' 5 D"9' A4 "' ' < ; 42?& = "9' 4' A A:04" 2' ' : ' ; 00 25& =45' <m B 5" C:"<B' 4 ; 2-5"' @< "4 2' 5<@:04 ' !"4"<5& =9 @9' -4 2<B' ; <' 5" <2-"9' C?' @ 25 0 B4" 2' "942' "9<' ; A <' 94B' 0 5"' C?' @: "4 0 ; <2"' :5" 4& =9 @9' @<B<B' "9<' <5-4:' 42B' "<24:' " ' "9<' :><' ' B<24& <@< G<B' "9<' C 59 A @5' ' D<2' 42B' <2")' 9<' 42B' :><' ' :5@42?& 42' 400? ' :5" 4& C"4 2<B' "9<' 4 @9C 59 A @' ' !40aC: -& = "9' "9<' 5: :2B 2-' "< " ?)' 4G4 4' =45' G< ?' 4G : 4C0?' " <4"<B)' !9<' <@< G<B' 42' 4 <4 ' KY& ' 5N:4 <' > 0 ; <" <5' = "9' W & ' 294C "42"5' 2' <D@942-<' ' "9<' K8& ' 5N:4 <' > 0 ; <" <5' = "9' Y & ' 294C "42"5' =9 @9' 59<' 5: <2B< <B' 2' "9<' 0< '" C42>' ' "9<' 9 2<& 42B' =45' <2B< <B' 4 ' ; <' @ ; A4@" C?' "9<' 4BB " 2' ' "9<5<' 2<='"<" <5)' % "< ; C< -' - '" 2 2<' << @ " <5' 42B' 4' 2: ; C< ' ' 4CC<?5)' 4B<2& =9 @9' 94B' 0 5"' 2 "9 2-' C:"' 4' <='A<""?' 0 B59 A5& <@< G<B' "9<' C89 A <' ' 25"42@<& "9<' " =25' ' < B<0C< -' 42B' 4229< ; & "<2' 4CC<?5& 5<G<2' << @ " <5& 42B' -4 2<B Y& ' 8B " 240' 294C "42"5)' 9<' (42B- 4G<' ' <55< 455<0 =45 0 C< 400?' 2B< ; 2 <B' 4"' "9<' <DA<25<' ' "9<' "< " ?' ' 4 2a)' <55<' 4 ; 5"4B"& 4554:& 42B' "9< ' ' "9<' ; 2 ' 04?' $ 2@<5' <4@9' <@< G<B' 4' 5:C5"42" 40' 2@ <45<' ' "< " ?)' :"& ' 400' "9<' !"4"<5& "' =45' 4-4 2' $:55 4' "94"' @4 ;<' $ C<5")' 2' "9<' A04@<' ' "9<' Y ' 5N:4 <' > 0 ;<" <5' 42B' "9<' K & ' 5:C <@"5' =9 @9' 59<' 0 5"& 59<' 4@N: <B' K & ' 5N:4 <' > 0 ;<" <5' 42B' & ' 294C "42"5' 2' %<5"A940 4& "9<' G< ?' 9<4 "' ' < ; 42?F' 59<' =45' "9:5' A04@<B' 2' 4' A 5 " 2' " ' <2<='9<' B<5 -25' 2' "9<' 9<-<; 2?' ' "9<' 2 "9)

9<' < <@"' '400' " <5<' @942-<5' =45' " ' 4BB' ; 4"< 400?' " ' 9<' @ 2@<2m " 4" 2' ' < ; 42?)' 9<' A<""?' $ 2@<5& <5A<@ 400?' "9<' $ 2@<5' ' "9<' 9: @9& =< <' 2<4 0?' 400' B 5A 55<55<B)' ' "9<5<' 01""< & 2: ; < :5' 45' "9<?' 94B' ; < 0?' C<<2& 20?' "9 <<' < ; 4 2<B& G a)' 40C< -& 0<@" ' ' ; 2a& =9 ' "9 :-9' 24A4 "<15' 2 0:<2@<' =45' "D42504"<B' " ' "9<' 5<<' ' 4" 5C 2& 2 =' 4 5<B' " ' 42' 4 @9C 59 A @& "9<' 9 0B< ' ' "9<' 5<<' C< 2-' ; 4B<' X ++ ' $ <5 B<2"' ' "9<' <"F' "9<' 42B' 45"< ' ' "9<' <:" 2 @ B< F' 42B' 9<' 42B' 45"< ' ' "9<' B< ' ' "9<' / 2 -9"5' ' !"6 92)' 9<' 2: ; C< ' ' "9<' <0<@" 5' =45' 4 5<B' ; ' Y' " ' K F' 42B' "94"' 2@ <45<' =45' 4G : 4C0<' " ' "9<' $ "<5"42"5& ' C< 2-' $ "<5"42"' 42B' Z' 4"9 0@)' 9<' <<' @ " <5' =< <' <B:@<B' 2' 2: ; C< ' ; ' " ' & 24 ; <0?' 4 ; C: -& (C<@>& < ; <2& ' 42> "& : -5C ; -& 42B' ; C< -)' 9<' :A59 "' ' "' 400' =45' "94"' "9<' < ; 42?' ' "9<' BB0<' -<5& = "9' "5' <@@<5m 45" @40' !"4"<5& "5' B< 5' ' >2 -9"9 B& 42B' "9<' A <A 2B< 42@<' ' "9<' 4C5C -5& G42 59<B& 2<G<' " ' <": 2)' 9<' 2B<A<2B<2"' 2 0 0 "?' @ A ' B 54AA<4 <B&" ' "9<' 4BG42"4-<' ' "9<' $ 2@<5F' 42B' "9<

KY W WY_ " +! 4 # +! @ + , WU

; 5"A =< :0 4 ; 2-" 0< 04""< "9<@ 4 -4 2< 5) 2 "94.5"4-< 2 "9< 4B " =4 B5 4 : 2 "<B < ; 42? =45 4@@ ; A0 59<BF 42B("9 5 <45 2("9< ; A< 40 <@<55 K =45 2 "5 =4? 4 <G 0:" 2 45 4B @40 45 =45 "9< ' <2@9 <G 0;" 2 KY W)

3

2 != "a< 042B("9< < <@"5 "9< ' <2@9 <G 0:" 2 <5< ; C0<B "9 5< 2 < ; 42?. "9< 42@ <2"A <B< 4" 2 K @42"@ ; 5 = "9 "5 5:C <@"A 42B 400 <B A G 2@<5(" -<"9< = "9 "9< <D" 4 B 24 ? 2<N:40 " <5 =9 @9 <D 5"<B C<"=<<2 "9< @ ; " ? B 5" @"5 42B "9<" =25(B 54AA<4 <B 2@< 400) 2 "5 A04@< =45 @ <4"<B "9< <0G<" @ <A:C0 @(2< 42B 2B G 5 C0<(=9 @9(C? 4C 0 59 2-" <@@0<5 45" @40 42B <:B40 C: B<25 42B "9< ; 2 A 0 <5 "94"A @0 --<B ; 42: 4@": <5 42B @ ; ; < @<(42B C? <5"4C0 59 2-" @ G 0 <N:40 "? 42B 0 C< "? 25@ <2@<(04 B "9< :2B4" 2 "9< B< ; @ 4" @ != "a< 042B "9< 2 2<"<<2"9 @<2": ?) 9 5 = >(A ; :5"A C< 4B ; ""<B(=45 4@@ ; A0 59<B 0<55 C? "9< = 00 "9< @ " a<25 "942 C? "9< @ 2N:< 2-" 4 ; <5 "9< <G 0:" 2(9< B<45 KY W 94B 2B<<B A<2<" 4"<B 2" != "a< 042BE =9< < "9<? :2B 4 <4B? <5A 25<) 9< A<4542"5(=9 =< < 2 5:C <@" 2 " "9< 0 -4 @9? "9< " =25(42B "9< A A:04" 25 "9< 5:C <@"A G 2@<5 3 4:B(4 -4:(9: -4:(!"A 400<2(@ 2 3 =9 C < = "9 ; A4" <2@< "9< ? >< R8< :0< 5(5? ; A4"9 5<B = "9 "9< ' <2@9 <G 0:" 24 <5) "A $4 5 4 <0G<" 42 0:C =45 :2B<B 2 KYW (= "9 "9< C <@"A A A4-4" 2-" <G 0:" 24 ? B<45 2 != "a< 042BF "A 0 B<B "9< " =25 42B @ :2" ? B 5" @"5 = "9 " 4@"5 42B A4 ; A90<"5 A <4@9 2-" =4 4-4 25"A "9< 0 -4 @9?) ! ; < 5 2-5 " >A04@< 2 @< 8 2 A4 "5 != "a< 042B(4"A !@94 94:5<2 42B 2 4:B(=9< <(4"A "9< 25" -4" 2 ' 8 @ 854 B< (4 4 A<42B 4 >2 A A4" "5(" <<5 0 C< "? =< < A042"<B 42B " @ 0 : 04-5 B 5A04?<B(" "9< < 4 2 [ ) :"A "9<5< ; G< ; <2"5 =< < A ; A"0? A:"A B =2) 9< <D 5" 2-" G< 2 ; <2"5 2 != "a< 042B =< < 5" 2-0? <m 4@" 24 ?F 42B <G<2 2 "9< 5 ; 400 B< ; @ 4" @ @42" 25 0B != "a< 042B((!@9=?a(42B 2"< =40B<2(=9 @9 94B : 2 59<B ; 42? @< 5 " ' 42@<(64@ C 2 5 ; =45 9<0B 2 4C9 <2@<) 25<N:<2"0?(2 2 A4 "A : A< =< < ' <2@9 6 ! 6 ; < 2: ; < :5(<04" G<0? 5A<4> 8-("942 2 != "a< 042BF 42B "9<?A =< < -<2< 400? =<0@ ; <B)

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))

W + < @ @ + , IKYWY W

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)66% 8 ' , ' : - . 0 2B ;*/* ' 5 + , ' 6)

' ' 5 ; < ?<4 5 "9< <G 0 : " 24 ?' G< 2 ; <2" ' "9< <0G<" @' <A : C0 @94B' ; : @9' B @ : 0"?' 2' ; 4 2"4 2 2 -' "5 4 : "9 "?F 42B% 4""4@><B' 45 "' =45 C?' "9< 4 5" @ 4"5 ' "9< " = 25 42B' "9< B< ; @ 4"5 ' "9< 0B' @42" 25% "5 ; < ; C< 5 A< @< G<B' "94"' 4' ' &O ' =45 "9< 20?' ; <425 ' <5"4C0 59 2 -' "9< ' A = <) 9<?' A A 5<B' " ' 4@@ ; A0 59' 4"' < 2' 2' "9< C8 ; 2 2 -' ' K ' = 94"' 24A4 "< 94B' <@<2"0?' 4@@ ; A0 59<B' 4"' $4 5 2' 2 : 24 <) 9< ' <B< 40 5"5% 2["9< "9< ' 942B% C<0 <G 2 -' "94"' "9<?' @ : 0B' @ : 2"' : A 2' 24A4 "< = 9 ' 94B' @ 2 B<B' " ' 2< ' "9< ; % "9< < 2<5< 6<2 : < % 9 5 5? ; A4"9 <5 = "9' "9< <B< 40 ; ' - G< 2 ; <2"E% C<-42 42 4@" G< 4 - "4" 2' 2' @< "4 2' ' "9< @42" 25)

24A4 "< =45 2 "' 2B < <2"' " ' = 94"' =45 A455 2 -' 2' ! = "a< 042B' 42B% 45 2' "9< @45< ' 0042B% 9< = 45 2' "9< = 4"@9' ' 42' AA " : 2 "?' " ' 2"< G<2<) < -4G< "9< A < < <2@< " ' 2< "9< ' '"9< "= ' <D" < ; < A4 " <5 =9 @9' B G B<B' "9< @ : 2 "8% C : "' 2@0 2<B' 4"9< ' " ' 42' 2"< ; <B 4"< - : A' =9 @9' <@ -2 5<B' 4"' 2@< "9< 4BG42"4 -<5 ' "9< 2 = ' % ! ' 42B' ' @< "4 2' 25" " : " 25' C<0 2 - 2 -' " ' "9< A45"' = 9 @9' "' @ 25 B< <B' 2B 5m A<254C0<) 9 5' A4 "?% >2 = 2' 2' ! = "a=042B' 45 "9< <A : C0 @42% 5" B' ; B=4?' C<"=<<2' "9< A4" "5 ' 64@ C 25' 2' "9< 2< 5 B< 42B' "9< <4@" 24 <5 ' ' <B< 40 5"5 2' "9< "9<) "' =45 ; B< 4"< 2' "5 @04 ; 5' 42B' : 2 @ ; 5"' 2' "5 C <@"5) : "' "9< A4 "?' = 45 =<4> 2' 2 : ; C< 5F 05' ; < ; C< 5 =< < ; <2' ' B 5" 2@" 2' = 9 ' 94B' C<<2' " 4 2<B' 2' "9< 5@9 0 ' "9< <A : C0 @% 42B' "9<?' ; <B% 5 ' " ' 5A<4>% 4' 5"4 ' ' @< 5 = "9 : "' 42' 4 ; ?) 24A4 "< 2<G< "9<0<55 4AA 4@9<B' "9< ; F' 42B' 2' 642 : 4 ?' % K % 4' ' & ' = 45 < <@"<B' 4"' < 2' = 9 @9' A04@<B' "9<5< ; <2' 2' A =<) 9 5' ' &O ' = 45 @9 < 0?' 4 ; <B' 4"' "9< 64@ C 2' ; < ; C< 5' ' "9< <@" ?% (4' 4 A<% ! <@ <"42% 42B' C< 2% = 9 ' 5 2@< "9< C<- 22 2 -' ' <@< ; C< % KYWW% 94B' C<<2' @ G< "0?' A <A4 2 -' 4' ' &O ' ' "9< ' =2) 9< "= ' <@" 5' = 9 ' C<0 2 -<B' " ' "9< B< 4"< A4 "?) 0B< ' 42B' ! 4G4 ?% A A 5<B' 2' "9< <@" ?' "94"' "' 59 : 0B' B 55 0G< "5<0) 2' "9< < 00' ' "9< ; 4 "?' " ' B ' "9 5% "9< B< 4"<5 A04@<B' "9< ; 4""< ' C< < "9< "= ' : 2@ 05% = 9 @9' =< < 9 5" 0< " ' "9< 64@ C 2' <@" 5) < "= ' : 2@ 05' B 55 0G<B' 9< <@" ?% 42B' <2" : 5"<B' "9< <D<@ : " G< A =< ' " ' 0B< ' 42B' ! 4G4 ?) ! 2' 4 "< = 4 B5% 25"<4B' ' 2 ; 24" 2 -' <59' <@" 5% "9< : 2@ 05' 4AA 2"<B' 42' D<@ : " G< ; ; ""<< ' 5<G<2' ; < ; C< 5% ; B< 4"< 42B' <DA< <2@<B' ; <2% = 9 ' =< < " ' 4@"' 45 4' $ G 5 240 G< 2 ; <2"' " 00' 42 "9< ' 25" " : " 2' @ : 0B' C< A @04 ; <B)

9 5' ' &O ' = 45 5A<<B 0?' 00 = <B' C?' 42 "9<) 24A4 "< @ : 0B' 2 "' " 0< 4"< "9< <D 5"<2@< 2' ! = "a< 042B' ' "= ' 55< ; C0 <5% <4@9' = "9' 4' 64@ C 2' ; 4 "?)) < "9< < < <2@ : 4 - <B' "9< D<@ : " G< ; ; ""<< " ' 5 : C5" " : "< ' "9< "= ' : 2@ 05' 4' (8 504" G< B?' @ ; A 5<B' ' Z ' ; < ; C< 5% ' = 9 ; ' U' = < < " ' C< @9 5<2' ; ' "9< : 2@ 05' C?' "9< D<@ : " G< ; ; ""<<8' = 9 0< "9< < ; 4 2 2 -' ' = < < " ' C< @ A"<B' C?' "9< U) 9< 0<- 504" G< B?' "9 : 5' @ 25" " : "<B' = 45' 2' "5' " : 2' " ' 4AA 2"' "9< <D<@ : " G< 2' "9< 594A< ' 4' : 2@ 0 ' 5<G<2' ; < ; C< 5) 9< 42B' : 2@ 0% R ; ' "9 5' A A 58' C< 2 -' 5 : C ; ""<B' " ' "% B 5@< 2<B' 2' "' "9< 942B

))) x)) '

W ' ! ' ' 5 + 3 I

' 24A4 "< 42B' G "<B' "' : 242 ; : 50?)' < !<24"<% 4 "< ' 4' 59 =' '
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9< <A : C0 @42' A4 "?' ; <B' "9< ; 4 "?' 2' "9< 2<=' G< 2 ; <2"%
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; A 5<B' : A 2' "9< @ ; " ?' 2' B< 42@< ' "9< <4"?' ' (: 6 BG 00<% = B'
94B' <@ -2 5<B' ! = "a< 042B' 45' 42' 2B<A<2B<2"' ! "4"<)

9< 25" " : " 2' ' 40 ; 4 5 2' 4?% K K'B G B<B' ! = "a< 042B' 2" '
KY' <5 ; " 25% " ' <4@9' ' =9 @9' =45' - G<2' 4 : " 2 ; ?' 2' 4 :5 ; 4""< 5%
A4 " @ : 04 0?' 2' "9 5< <04" 2 -' " ' 242@< 42B' A : C0 @' 25" : @" 2)' 4@9
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@ 25 5"<B' ' 4' <'"' ' YY' ; < ; C< 5' 42B' 4' ! <24"< ' U' ; < ; C< 5F 42B'
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@ : 2" ?' @ : 0B' 9 A< ' 4"' "9< " ; <)' 4> 2 -' 2" ' 4@@ : 2"' <@<2"' <G<2"5%
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@" C< ' % K K% 4' "9 : B' ' & ' 4"' < 2' 5 = <A"' 4 = 4?' "9< G< 2

& 9 5& ; <= 25" " : " 2& ; A 5<B C? @<& -4G< 5< " 2@<5542" " :0E0<5) 8 2 4 : B "9< A<4542"& "4"<B C? "9< <G G40 "4D<5 42B " "9<5& 5< 2 <G 0"& A0 : 2B< <B "9< 4 @9 G<5 @45"0<5 42B " =25& 42B C : 2" "9< @ 2"<2"5) N : <00 "9< 5 2 -& "9< 4 B 2@9 <2@9 " A5 =45 <N : <B) 9 5 %45 "9< G ; 8? 2 ; <2" @9 5<2 C? 24A4 "<& = "9 4@9 4G<00 42 45" : "<2<55& " = "9B 4= 9 5 5 0B < 5 ; ! = 55 "< " ?) 24A4 "< 94B 2 " ; 5@40@ : 04"<B 94 B0? 94B "9< 045" ' <2@9 5 0B < N : ""<B ! = 55 5 0 "942 5 2 -5 " >A04@< 2 400 B <@" 25) 25" -4"<B C? 0 ?5 <B 2 -& "9< 5 ; 400< @42" 25& = "9 5 ; < "9< "9< 5 3 ^ : @9 C< 2 - 2< 3 ; 0<B "9< ; 5<0G<5 2" 4 <B< 40 !"4"<) < < 0 2 -& "9 5 <B< 4" 2& =9 @9 2@0 : B<B "9< A4 " 5425 "9< 0B # - <= 5 5" 2 - "94" "9< <0G<" 6 ; G< 2 ; <2" =45 A =< 0<55 " @ ; A<0 "5 B 55 0 : " 2 C? @< 4 ; 5) <2< 40 2B< ; 4""& =9 " ; ; 42B<B "9< - G< 2 ; <2" " A5& 4 "< 42 : 25 : @@<55 : 0 4""4@> 2 ^ : @9& =45 @ ; A<00<B " <" <) 9< ' <B< 8 5"5& : 2B< <DA< <2@<B 0<4B< 5& ; 4B< "9< ; 5BG<5 ; 45"< 5 < 2& 42B <DA<00<B "9< ; ; ; ; ") 9<? "9<2 B< <4"<B "9< G405 4" 4"& @" C< Z& K & 42B ; 4 @9<B @ ;' (4 :5422< 2 B< " G< "9 =" "9< G< 2 ; <2"& =9 @9 94B "4><2 < : -< "9< <) " "9 5 A 2" 24A4 "< 2"< G<2<B) <2< 40 4AA& 2< 5 5 4 B<5 B< @4 ; A& C : - 9" "9< 00 = 2 - ; <554 -< " "9< ! = 55 [5 ? : @422 " 4 - <<< 4 ; 2 - 5" ? : 5<0G<5 94G< B<@ B<B " 5"<A 2 45 ; <B 4")\ %9 0< 9< 4AA<4 <B ; < <0? " < ; <B 4" 2& 24A4 "< 2 <40 "? ; A 5<B " C? @<) "" "9< G< ? ; ; <2" =9<2 4AA A <5<2"<B 9 ; 5< C< <" "9< <0G<" 42 G< 2 ; <2" <2< 40 <? =45 B< <B " ; 4 @9 2" ! = "a< 042B = "9 & ; <2 42B [@ : 59 400 AA 5 " 2) 55 : <B A @04 ; 4" 25 2 =9 @9 9< 5"4"<B "94" " =45 [4" "9< <N : <5" "9< 24" 2& 42B A4 " @ : 04 0? 2 "9< B< ; 42B "9< ! <24"< 42B "9< 5 ; 400< @42" 25& "94" "9< ' 5" 25 : 0 2"< G<2<B 45 ; <B 4")\ =45 " : <F C : "& 4" "9< ; <2" =9<2 "9< ' <2@9 2G4B<B "9< "< " ? ! = "a< 042B& "9< ' <B< 40 5" G< 2 ; <2" B<5A4"@9<B 4 A "<5" (2B 2& < ; 4& 42B < 0 2) 9< ; A< ' 42@ 5 G : @954 <B 2 <A0?& "9 : -9 "9< 4@" 2 24A4 "< =45 2 B <@" G 04" 2 "9< <4"? (: 28G 00<) 9< / 2 - $: 55 4& ' <B< @> % 00 4 ; & 405 ><A" 5 0<2@<) 9< " 59 G< 2 ; <2" 40 2< A "<5"<B 4-4 25" "9< 4 - - <55 2& 40"9 : -9 2 2 "<0? 0<55 2"< <5"<B 2 ! = 55 4 4 5 "942 =< < "9< @ 2" 2<2"40 $ =< 5) 2 @" C< K & K & (B 4=><5C : ? B<5A4"@9<B 4 2 "< " "9< ' <2@9 G< 2 ; <2"& < ; 2B 2 - "9< ; "94" "9< A 2@ A0< "9< 2< : " 40 "? ! = "a< 042B =45 @0 5<0? C : 2B : A = "9 "9< N : <5" 25 A<4@< 42B "9< C4042@< A =< 2 : A<F "94" "9< <4"? (: 2<G <& 5 -2<B 20? 4 ?<4 C< <& 94B 5 0< ; 20? <@ -2 5<B 42B - : 4 42"<<B "94" A 2@ A0<F 42B "94"& 2 5A "< 4 "94" =45 94AA<2 2 - 2 ! = "a< 042B& 9< =45 : 2 = 00 2 - " C<0 <G< "94" " @ : 0B C< 2"<2B<B " <B : @< 4 <" A< A0<" 504G< ?) 2 425=< " "9 5 2 "<& ; B< 4"< 2 ; C : " ; 2 " 2<& "9< ' <" 25 : 0& 2 @" C< & @4 : 5<B 400<? 42B " =4 B 4 B<@04 4" 2 "

K $ ' % ' " .'2 (

"" & ' <2@9' ; 2 5"<' 2' (2B 2& =9 @9' 5"4"<B' "94"& +"' ' "9<' 0 " 59' ; 2 5" ?' ; 4B<'42?'A : C0 @'5"4"< ; <2"" ;' =9 @9' '" ; -9"' C<' 2 < <B' "94"' "9<' ' 8' 25:0' 94B' < 4 2<B' ;' B 2-' 42?'A4 " <:04 ' "9 2-' C<@4 : 5<&' 9<' 94B' C<<2' A <G<2"<B& 9<' = "BB' B ' "' "9= "9)\' %9<2' 400<? 42B' B<5A4"@9<B' "9 5' 2 "<& "9<' <04" 25' C<"=<<2' ' 2-C : B' 42B' ' 42@<' =< <' 49 <4B?' ; :@9' 5" 4 2<B)' 2' <4"' "4 2& A : C0 @' A 2 2' =45' - = 2-' <D45A< 4"<B' C<@4 : 5< "9<' G< 2 ; <2"' 94B' 8 0<B' " ' C"4 2' 4' " 8 "?' ' @ ; ; < @<' ;' ' 42@<)' 24A4 "<' <G4B<B' "9< ' B< ; 42B5g 42B' A : "' ' "9<' A A 540' ' 4' B< 2 "<' 4- << ; <2"' C?' G4- : <' A ; 5<5)' 5' 2 "9 2-' @4 ; <' ' "9 5& "9<' 2-0 59' C<-42' " ' 0 5<' A4" <2@<)' 24A4 "<' 94B' 9 5' =2' - <G42@<5' 4-4 25"' "9<' " 59' G< 2 ; <2")' <' <5<2"<B' "9< 9 5A "40 "?' < <B' " ' < : -<<5' =9 ' =< <' 9 5' <2< ; <5& 42B' " ' "9<' ' <2@9' $ 2@<5' =9 ' @ 25A <B' 4-4 25"' 9 ;)' <' @ ; A04 2<B' 405 ' ' "9<' 4""4@>5' B <@"<B' 4-4 25"' 9 ; ' 2' "9<' 2-0 59' A <55)

: "& ; <' "942' 42?"9 2-' B5<& "' =45' 24A4 "<9' A 0 @?' 2' : A<' =9 @9' < ; C ""< <B' "9<' <04" 25' ' "9<' "= ' A< A0<5)' <' =45' =<00' 4=4 <' "9 5F' 42B' 9 5' G - :5' 4C : 5<' ' "9<' 2-0 59' 2<=5A4A< 5' =45' B : <' " ' "9<' 4@"' "94"' "9<?' A< 5 5"<B' 2' <DA 5 2-' 42B' @ 2B< ; 2 2-' 9 5' : 2 = "9?' " <4" ; <2"' ' "9<' =<4><' ! "4"<5& "9<' 9?A @ 5?' ' 9 5' 9 -9 942B<B' A @<<B 2-5' -0 55<B' G<' C?' "9<' 405<9 B5' ' "9<' 2' 42B' "9<' 4@"5' ' G 0<2@<' ' =9 @9' 9<' 94B' C<<2' - : 0"?' " =4 B5' $ " : -40& ! A4 2& 0042B& 42B' ! = "a< 042B)' 24A4 "<' 5 : -9"' " ' : 5" ?' 9 5' 0 2-' A < ; <B "4"<B' 4-- <55 25' 2' "9<' 2" 2<2"' C?' "9<' < : 540' ' "9<' " 8' G< 2 ; <2"' " ' 54" 5 ?' 9 5' B< ; 42B5& =9 @9' 9<' 5 : -9"' " ' <A <5<2"' 45' ; <45 : <5' ' A <@4 : " 2' "4><2' 2' G <=' ' 4' A 55 C0<' 4""4B>' 2' "9<' A4 "' ' <4"' "4 2)' 9 : 5& 2' : - : 5"& K & 4 "< ' (B' 4=><5C : ?' 94B' ; 400?' < : 5<B' " ' <A0?' " ' 24A4 "<5' ; ; 4@ 2-' @ ; ; : 2 @4" 25' 9' "9<' 5 : C <@"' ' "9<' # "9<' <D 0<B' ' <2@9' $ 2@<5& 42B' "9<' ; <45 : <5' " ' C<' "4><2' 4-4 25"' "9<' 2-0 59' A <55& "9<' ' 5"' 25 : 0' 94B' <"40 4"<B' C?' " 0<' B< 2 "<' 422<D4" 2' ' $ <B ; 2"' 4""B' "9<' 50<' ' 0C4& C?' 4' < 954' 0 <G4@ : 4"<' ' 0 : 59 2-' 42B' " <@9"& 42B& 4' 0 ""0<' 04"< & C?' 5<2B 2-' 9 5' @<5' 2B<' <2< 40' <?' " ' @@ : A?' ! = "a< 042B)

00' "9<5<' 4@"5& 00 = 2-' 2' 24A4 "<5' : 5 : A4" 25' 2' "40?& 42B' 2' "9<' 5"<A5' =9 @9' 9<' 94B' "4><2' " ' 5<@ : <' ' 9 ; 5<0 ' "9<' $ <5 B<2@?' ' "9<' 540A 2<' <A : C0 @& 4 ; A0?' : 5" <B' "9<' 4AA <9<25 25' ' " 59' 5"4"<5 ; <2& =9 ' 54=' 2 ' 0 ; "5" ' 9 5' 4-- <55 G<' @4 <<)' 9<?& " & 5 : -9"' A "<@" 2' 4-4 25"' 24A4 "<5' - = 2-' 4 ; C " 2F' 42B' "' =45' = "9' "9 5' C <@"' "94"' "9<?' A< 5 5"<2"0?' B< ; 42B<B' 4' <" : 2' " ' "9<' @ 2B " 25' =9 @9' <D 5"<B' 4"' "9<' " ; <' ' "9<' $<4@<' ' ; <25)' ' "9 5' 24A4 "<' <" "<B.' [' "' "9<' " ; <' ' "9<' $<4@<' ' ; <25' =<' 94B' & ' ; <2' 2' $ <B ; 2"' 42B' Z & ' 2' "9<' 540A 2<' <A : C0 @F' "' 00 =5' "94"& ' "9<' 2-0 59' B<5 <' "9<' 5"4"<' ' "9 2-5' =9 @9' <D 5"<B' 4"' "94"' B4"<& "9<?' @422 "' @ ; A04 2' ' "9<' 5"4"<' ' "9 2-5' =9 @9' <D 5"5' " B4?)))) 5' ' ! = "a< 042B& =<' @422 "' B ' = "9 :"' 9<)\' ! = "a< 042B' =45' @0<4 0?' "9<' =<4>' A 2"' 2' 24A4 "<5' 4 - : ; <2"F' "9<' 5 0<2@<' ' "9<' <4"?' ' ; <25' 2' "9 5

5:C <@'@ :0B 2 '' C< : -<B 2 9 5 " G : & ʻ9 5 2"< G<2" 2 45 ; <B 4" ʻ =45 5:C5<N:<2'' " ʻ "9< B<@04 4" 2 ʻ A<4@<)

24A4 "< =45 =<00 1=4 < "94'' "9< " 59 G< 2 ; <2'' =45 B<<A0? 2"< <5"<B 2 "9< N:<5" 25 ʻ ! = "a< 042B 42B 0042B& 42B "94'' "9 8 N:<5" 25 = :0B 2 "9< <2B ; ʻ "9< A G '' ʻ "9< @ 5@ 55 2) '' "9< " ; < ʻ9 5 2"< G<2" 2 2 ! = "a< 042B& "" ʻ = "<" ʻ 400<? 42B.ʻ [9< -<2< 40 A 2 2 5 "94'' "9<G4@:4" 2 ʻ 40"4 = 00 B<A<2B 2 "9< <5:0'' ʻ"9< 2<- " 4" 25 <04" 2-ʻ " ʻ ! = "a< 042B)\ʻ 24A4 "< B<@0 2<B 2 42? @ @: ; 5"42@<5 " ʻ 400 =ʻ 2-042B " ʻ @ 22<@'' "9< "= ʻN:<5" A25) [ʻ 5 " ʻ ! = "a< 042B&\ʻ 9< = "< " ʻ 400<? 42B& [=< @422 '' A< ; '' 2-042B " ʻ ; <BB0< "9< <& & ʻ59< B B 5 & '' = :0B C< 20?'' ʻ 5A <4B B 5 B< ʻF 59< = :0B ; 4>< '' 4 5<@ 2B 6< 5<?' ; ʻ =9 @9' " ʻ <2@ : 4-< 4- "4" 2 4-4 25'' 6 42@<\F 42B 9< 4BB<B& [ʻ ʻ <N: <& 5'' 42B < ; 5"& 4 2" < ʻ " ʻ@ G< ʻ ' 42@9< ; "<) ʻ <N: < 2 ! = "a< 042BE 4 ; ʻ - G< 2 ; <2"& 2<2B0?'' ʻ ' 42@<F "9 5 5 ; ?' 5'' 4 ; & 42B& ʻ ʻ@422 '' 5<@: < "& ʻ59400 >2 =ʻ =94'' ʻ B ʻ 2 "9< 2"< <5"5 ʻ ' 42@<)\

! :@9 =45 "9< A 5 " 2 2 @" C< & K & =9<2 24A4 "< 2"< G<2<B 2 ! = "a< 042B) % "9 5 ; :B ʻ 5:5A @ 2 2 " < 2< 5 B< 42B 5 ʻ ; :@9 ; <24@< 2 "9< "9< &4 :A": < C<"=<<2 "9< "= ʻ $ =< 5 5=<; <B 20? 4 N:<5" 2 ʻ B4?5) <G< "9<0<55 C "9 24" 25 =< < 5 ʻ B<<A0? 2"< <5"<B 2 "9< A <5< G4" 2 ʻ A<4@<& 42B <4@9 =45 5 ʻ 220? @ 2G 2@<B "94'' "9< "9< ʻ B<5 <B A<4@< 42B =45 A <A4 <B " ʻ ; 4>< @ 2@<55 25 " ʻ 5<@: < "& "94'' 4 <=ʻ =<<>504"< ʻ 8:04 ʻB A0 ; 4" @ <04" 25 =< < <2<=<B) :2'' 2B B 55?' C< 2-ʻ 5<2'' 45 4 ; C4558 ʻ " ʻ (2B 2& 42B (B %9 "= "9 " ʻ $4 5)

2 B< ʻ " ʻ 4 G< 4'' 4 ; :":40 :2B< 5"42B 2-& '' =45 4 42-<B " ʻ 4G B 4 ʻ C: 2 2-ʻ N:<5" 25F C:'' "9 5 =45 4 B @:0'' ; 4""<) '' "9< A<2 2-ʻ ʻ $4 0 4 ; <2'' 4'' "9< <2B ʻ G< ; C< & K & / 2-ʻ < -<& =9 0< <DA <55 2-ʻ 9 5 B<5 < ʻ "9< A <5< G4" 2 ʻ A<4@< 42B "9< ; 4 2"<242@< ʻ - B <04" 25 = "9 400 "9< $ =< 5& 4BB<B "94'' 2-042B @ :0B 2 '' @<45< " ʻ < ; A945 5< "9< 2"< <5'' =9 @9' 59< " >' [2 @< "4 2 !"4"<5)\ʻ 9< !"4"<5 < < <B " ʻ=< < <G B<2"0? ! = "a< 042B 42B 0042B) !9< B42& 5A<4> 2-ʻ 2 $4 0 4 ; <2"& <DA 5<B 2 A04 2 042-:4-< 24A4 "<!5 A 0@? ʻ @ 2N:<5") [ʻ (>ʻ 4'' "9< ; 4A ʻ : A<&\ʻ 9< <D@04 ; <B& [ʻ 42B ? :ʻ = 2 5<< 2 "9 2-ʻ C:'' ' 42@<)\ʻ <4'' "4 2 =45 @ 25<N:<2"0? @ ; A<00<B " ʻ "4>< @< "4 2 ; <45: <5 ʻ A <@4:" 2F 42B& 2 5A "< ʻ "9< A4@ @ 455 ; .42@<5 ʻ "9< / 2-& "9< ; 2 5" ? 45><B ʻ 42B C"4 2<B = "9 4 G <=ʻ " ʻ "9< A "<@" 2 ʻ <042B& 42 4BB " 2 ʻ & ʻ ; <2 " ʻ "9< 4 ; ? 42B ʻ & ʻ ; <2 " ʻ "9< 24G?)

24A4 "< 94B 2 ʻ C<0 < ʻ 2 "9< =4 0 >< 2"<2" 25 ʻ 2-042BF 42B& 45 "9< <A "5 =9 @9' 9< <@< G<B ; ʻ (2B 2 5A >< ʻ "9< A< A0< 45 ><<20? B<5 :5 ʻ A<4@<& 9< ; 4- 2<B "94'' "9< " 59 4C 2<'' = :0B ? <0B " ʻ "9 <4"5) '' 4 B4? A455<B C:'' 9< 4C:5<B "9< " 59 G< 2m ; <2") 9<2 2 642:4 ?& K 8 & 9< <@< G<B "9< ! = 55 B<0<-4"<5 4'' $4 5& 9< B<@04 <B " ʻ "9< ; ʻ "94"& ʻ "9< 4C 2<'' ʻ ! '' 64 ; <5 ; 4B< <A <5<2"4" 25

" (' '% K

6 : 4)' $ 0 " @400?&"9<' @42" 25' =< <' B G B<B' 2" ' "9 <<' - A5&"9<' : 40 @42" 25&"9<' : C42' @42" 25&42B' "9<' ; < ' 5 : C <@"' B 5" @"5)' 9<' : 40 @42" 25'@ ; A 5<B' "9<' : 40 42B' ; : 2"4 2' B 5" @"5' ' <2" 40 ! = "a< 042B' 45' %<00 45 "9<' 5 25F' "9<?' <@ G< <B' "9< ' 42@ <2"' B< ; R84" @ -42 m 54" 2' = "9' "9< ' 1 ! ! !# ' A A : 04 ' 455< ; C0 <5& = 9 @9' G "8 ' 2' "9<' C 005' A <A4 <B' C?' "9< ' 42B' : 2@ 05F' "9<' <D<@ : " G<' 4 : "9 "?' =45 A04@<B' 2' "9<' 942B5 ' 4' 5 ; 400 : 2@ 0& A <5 B<B' G< ' C?' 4' 5 : A 8<' ; 4- 5" 4"<& ' 1 ! ! ! ' 8"9<' : C42' @42" 25' <@< G<B' 4' A 9" <40 -42 54" 2' 4 5" @ 4" @ 2' @94 4@"< F " <' 5 : A < ; < ; 4- 5" 4"<' »B + ' ' C : - ; 45"< E - G< 2<B' = "9' "9<' 4 B' ' 4' ! <24"<& 4' : 2@ 0& 42B' 4' <A <5<2"4" G< B?& <0<@"<B' 2' 4' 0 ; "<B' 5 : 0 4-<& = 9 @9' @ 2"4 2<B' B<A : " <5' ; ' "9<' @ : 2" ?' B 5" @"5)' 5' ' "9<' B 5" @"5' ; < 0?' 5 : C <@"& 2 =' <@ -2 5<B' 45 2B<A<2B<2"' @42" 25& "9<?' 405 ' 94B' $<""?' 42B' 42B' : 2@ 05F' C : "& 45 2' 8 < ' @45<' "9<' <0<@" 40 N : 40 @4" 2' =45 0 =< & "9<' ' G< 2 ; <2"5' =< <' ; <' B< ; @ 4" @' 2' @94 4@"< 00 "9<' @42" 25' =< <' C : 2B' " ' @ 2 ; ' " ' "9<' "< ; 8' ' "9<' <B< 40 @ ; A4@"& 42B' =< <' C BB<2' " ' @ 2@0 : B<' 400 42@<5' < "9<' ' 4 ; 2 8' B < ; 5 G<5& ' = "9' 4' < -2' $ =<)' 9<' 0 @40' ; 0 " 45' @ : 0B& 2' @45<' ' 2<@<55 "?& C<' ; <B' 2" ' 4' ' <B< 8' @ 2" 2 - <2"' ' K & ' ; <2F' 42B' "' =45 B<@ B<B' "94"' <G< ?' @42" 2' 59 : 0B' @ 2" C : "<' " ' "9<' @ ; ; 2' <DA<25<5& = 9 @9' =< <' <5" ; 4"<B' 4"' & ' 42@5' ' ! ! ' ! D' ' "9<' @42" 25& G a)' < 2& ' C : -& (: a< 2& ^ : @9& ! 0 "9 ; 2& 42B' 45<0& C<@4 ; <' 2' 5 : @@<55 G<' ?<4 5' "9<' 5<4"' ' "9<' @<2" 40 4 : "9 "?)' 9 5' [B <@" 400\' @42" 2' =45' >2 = 2' 45' "9<' . Y 42B' "5' 5"' ; 4- 5" 4"<' C<@4 ; < ! ' ' ! = "a< 042B)' 9<' A =< 5' ' "9 ' 1 ! ' =< <' <5" @"<BF' 9<' 94B' "9<' -<2< 40 ; 424- < ; <2"' ' < -2' 4 4 5& A<2<B' 42B' A <5 B<B' G< ' "9<' <"& 42B' =45' <5A 25 C0<' ' "9<' ; 4 2m "<242@<' ' 2"< 240 B<)' <' =45' 4 : C 5<B' " ' G >< "9<' @42" 240 4 : "9 "?' 2' "9<' <G ; '" ' B 5 B< 5' "4> 2 -' A04@<& ' ' : -<2"' A< 4" 25' C< 2 -' 2<@<554 ?' 2' @ 22<D 2' = "9' 4B5' ' G< 5)' <' <@< G<B' 4' 5404 ?' A4 B' C?' 9 5' @42" 2& = 9 @9' ><B' "5' 4 ; : 2"' 42B' 405 ' A4 B' "9<' 5404 <5 ' 9 5' 4 B< B< @4 ; A& ' "9<' 942@<00 ' ' "9<' 2 <B< 4" 2& 42B' ' 4' B< >& "9<' 20?' "9 << : 2@" 24 <5' = 9 ' 9<0B' A< ; 42<2"' 0 @<' 2' "9<' G< 2 ; <2")

2' 4BB " 2' " ' "9<' 1 ! ! !# "9<' @<2" 40 A =< ' @ 25 5"<B' ' "9<' <B< 40 <"& = 9 @9' ; <"' <G< ?' ?< ; ' B : 2 -' 4' ; 2"9' 2' "9<' 5 : ; ; < ' 4"' "9<' . ' 4@9' @42" 2' 5<2"' 4' 5 80<' B<A : "?' " ' "9<' <"& ; 4> 2 -' KW' 2' 400F' C : "' "9< <' =< <' U' G "<5& 45' <G< ?' @42" 2' @ 2"4 2 2 -' ; <' "942 K & ' 294C "42"5' A 55<55<B' "=N' G "<5)' 9<' <"' B<40"' = "9' " <4" <5& 4 5<B' "9<' " A5' 2<@<554 ?' " ' A G B<' "9<' ' <B< 40' @ 2" 2 -<2"& 4AA 2"<B' "9<' @ ; ; 42B< 2 @9 < & 42B' 5<""0<B' B 5A : "<5' C<"=<<2' "9<' @42" 25' =9<2 4 C " 4" 2' 94B' 4 0<B)' "' 94B' 2 ' "9< ' A =< 5)' 9<' ! "4"<' A 55<55<B' 2 ' 5"42B 2 -' 4 ; ?& 94 B0?' 42?' <G<2 : <& 42B' 2 ' B A0 ; 4" @' 4 - <2"5& 42B& 2' C<B <2@<' " ' "9<' = ' ' A4A4 "<& = 45' @ ; A<00<B' " ' 4@@<A"' "9<' A 5 " 2' ' 4C5 0 : "<' 2< : " 40 "?)

) &

; -9'' @ <4"< 2' :": <)\' ' : "9< '5"<A' =45' "4><2' =9<2& B: 2-' " < ' 859' @4 ; A4 -2' ' K Y& 4A 0< 2' B< <B' (< <CG < " ' 04?5<-< " ' 42a -)' '' =45' = "9' 5<'' A: A 5< "94'' 9< 5B<@"<B' "9< 4 5940 !<24" ' '"9 5' @ ; ; 42B)' (< <CG < =45' 42' 0B' @4 ; A ; -2< &N: "< 2@''8C0< ' @ 2B:@" 2-' 4' B @:0'' A< 4" 2& C:'' 9< =45' 4' G<"< 42' '"9< <A:C0@420 4 ; <5& G< ?' C 4G<& G< ?' A A:04 & 42B' 4C G< 400' G< ?' A0<C< 42)' %9<2'g "9< A04@< @4A ":04"<B& (< <CG < =45' ; 4B< : << ' 42a -.' "9< - 42'' 4@@ ; A42? 2-' "9< 2<=' " "0< =45' " ' C< @ ; A 5<B' '042B5' 5 ":4"<B' = "9 2' "9< "< " <5' '"9< ; A <)

' A <@<B<2'' 94B' "9:5' C<<2' @ <4"<B& " ' =9 @9' "9< B<@ << ' 4 @9' K& K & -4G< "9< 900<5'' 4AA0 @4" 2)' 9< 42B' -2 "4 <5' =< < " ' C<;.' "9< " "0< ' $ 2@<& 42B' "9< ' <0B<5'' 5 25' "94'' ' :><F 2 5"< 5& 5<24" 5&0 < ; < ; C< 5' '"9< :2@ 0' '! "4"<& A <5 B<2"5' '"9< (<- 504" G< B?& 42B' 4 @9C 59 A5&"94'' ' ; "F A <5 B<2"5' '"9< <0<@" 40@ 00<-<5& "9< @ "' A <5 B<2"5' 42B' A @: 4" 5 -<2< 40' '"9< @ : "5' ' :5" @<& C 59 A5& 42B' ; 4? 5' ' ! Z' Z # "94'' ' 4 2F ; < ; C< 5' '"9< (8 2' ' 2 : & "94'' ' / 2 -9'' >" ' 9<5< " "0<5' =< < " ' C< 9< <B "4 ?& A G B<B' "9<?' =< < <2B =<B' = "9' A A< "?' C 2- 2-' 2' 42 422:40 2@ ; < ' 2 '' 0<55' "9< ;' & ' 5)' 2' "9< @45< ' $ 2@<5F & ' 5)' 2' "94'' ' ; "5F KU& ' 5)' 2' "94'' ' 4 25F 42B' & ' 5)' 2' "94'' ' / 2 -9"5& 9< ; A< ' <5< G<B' " '9 ; 5<0 '"9< -9'' " 'C<5" =& 2' "9< 54 ; < "< ; 5& 5: "4C0<' " "0<5' :A 2' -<2< 405& A < <@"5& 42B' 5:@9' 0 < ' '9 5' 5:C <@"5' 45' 59 :0B' 4""4 2' B 5" 2@" 2' "9 : -9' 5< G @<5' <2B< <B' " ' "9< ! "4"<)' 9< 0B' ' <2@9' 2 C 0 "?& 9 =<G< & =45' 2 '' <5" <B)' 4 ; C4' @< 8' <4B' " ' "9< !<24"< "9< B<@ << =9 @9' 5 ' A :2B0?' ; B <B' "9< 5 @ 40' B< ' @ <4"<B' C?' "9< <G 0:" 2F "9< !<24"<& 2' 42' 4BB <55' @4 <B 4'' "9< 5 "" 2-' ' 4 @9' K & [' 0 < <B' " ' 5' ; A< 40' 42B' ?40' 4 <5"?' "5' 9: ; C0< 42B' <5A<@" :0 "942>5' ' 9 5' > 2B2<55' 2' @ ; ; :2 @4" 2-' " ' "9< ;' "9 :-9' "9< ; <B : ;' ' 5' !< <2< -92<55' "9< $ 2@< @9' 942@<00 ' ' "9< ; A < "9< <-:04" 25' B<40 2-' = "9' " < @ <4" 2' ' "9< ; A< 40' " "0<5)\

9< 9 < 4 @9 @40' 5?5"< ;' =45' 2 =' @ ; A0<"<)' 4A 0< 2' @ <4"<B' "9 << A 2@<0?' " "0<5' 4 "< ' "9< @4 ; A4 -2' ' K W)' 94'' ' %4- 4 ;' =45 @ 2 < <B' 2' < "9 < & $ 2@< ' <:@9B"<0F ' 550 2-' 2' 455<24& 40 <4B?' :< B< G 0 F 42B' ' @> ; 90' 2' 4G :"& 40 <4B?' :< BJ :< 5"4B")' "< ' "9< :55 42' @4 ; A4 -2& 4' : "9& G a)' "94'' ' 5@ =4& =45' C<5" =<B' :A 2' <?& 40 <4B?' :< BJ 0@9 2-<2)' <5 B<5' "9<5<& 4A 0< 2' @ <4"<B' K' :><5& ' :2"5& K W ' 4 25& 42B' 4C :'' KU ' / 2 -9"5)' 9< < =< < 20?' "= ' 4 59405' ' "9< ; A <& 24 ; <0?& :2< 42B' 6 : B42& =9 ' =< < 2 '' <22 C0<B)' 4A 0< 2' 59 =<B' 9 ; 58' <D" < ; <0?' -<2< :5' 2' " < ; 4""< ' ' - 42"5' B<5 -2<B' " ' 9<0A' 2' "9< ; 4" 2' ' "9< 2<@<554 ?' <2B = ; <2"5' 42B' " ' ; 4 2"4 2' "9< 5A0<2B :' ' "9< 2<=' " "0<5)' < "9 < & ' 25"42@<& 94B' G< ' K& & ' 5)' 4' ?<4 ' 2' - 42"5F 4G :'' G< ' Y & ' 5)F 455B24' G< ' &)' ' "9<5< -: <5' ; :5'' C< 4BB<B' "9< 04 -< 5404 <5' 4""4@9<B' " ' "9< @<5' 9<0B' C?

K Z _ ' " % + ! +, $ /$?

"9< - 42"<<5 4C ' " < 4 ; G ; " ' "9< A G4"< ": 2<5 "9<? 94B 5 : @@<<B<B 2 4 ; 455 2-(9? 00 @ " ; <425(2 "9< B 5@9 4 8 ' "9< ' @ 40 B2" <8 ' 4A 0< 2 " > @4 < 2 " " ' 5<< = 94" =<2" 2) < 9<0B "94" 4 ; 2 4 8 ' <N : <B "9< 5 : AA " ' 4 2 C0< @0455(42B CB <G<B "94" C? ; 4> 2-' "9< ": 2<5 ' "9 5< = 9 ' 5< "<B 9 ; ' 9< = : 0B C 2B "9< ; ' " ' i 9 ; 5<0) [%< 94G< C<<2 - : B<B&89< B<@04 <B " ' "9< ! <24"< 2 @ ; 0 ' ; : 2 @4" 2-' " ' " ' "9< B<@ <<5 ' 4 @9 (K ([C? "9< - <4" B<5 < " ' @N25 0 8"< "9< 5 @ 40 B< ' 42B8 : ' = 2 "9 2<(2 = 9 @9 "94" B< ' 5 C55<B(o8 < ; 4- 2<@ ' "94 (C? : 0" A0? 2-' 9<[2 : 2C< [5 @ 40 - 5B8 #2<"=<<2 9 ; ' 42B 9 5 5 : 0-<@"5(9< =45 <2942@ 2-' "9< !4@ <B2<55 ' 9 4 ' ; A< 40 ; 4 <5 ? 42B 4 : 5 2-' 4 5A " ' < ; : 04" 2 2 "9 5< = 9 ' %< < "42-<B 2 5 : @@<55 G< 5"4-<5 C<2<4"9 9 ;) [' &\ 54 B 9<([' 2 4 ; C " 2 5 " ' C< : 2B "9< @9 < ' ; " G< @< ' 9 : ; 42 "?(42B 4 ; 42 A : "5 "9 9 5 C<5" A =< 5 2 A A " 2 " ' 9 5 9 A<5 +4BG42@< ; 4 " \

C 9< ; 4" 2 ' 4 2<=' 5 @ <"?(B<A<2B 2-' <2" <0? 2 9 ; 58(=4+ 2 "9< <0B ' 2"< 240 A 0 " @5(4A 0< 2 5 - <4" B<4) " =45 405 ' 9 5 8- <4" C0 : 2B<) 9< B " < 2 C 0 "? 00<B "9< A 5"5 4C : " "9< 2<=' ? ' : ") 4A 0< 2 94B "9< A : B 54" 58" R ; ' 2 : ; C< 28 4 ; 2-' 8 5< & 4""4@9<B " 9 5 =2 : "(' 2 "9< 5< G @<(' ; < ; C< 5 ' 9 5 4 ; 0? (("9< - <4"<5" 24 ; <5 'A < <G 0 : " 24 ? ' 42@<)

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) x)) x)))

KK H ' > +' , < lK Z

h$ "<5"5 2' "9< A4 '" ' C "9' "9< : 2 @ A4 0 : 2@ 0 42B' 0 <' $ < <@'" ' 8 "9< ! < 2<& = 9 ' =45 4@" 2 -' 45 4? ' ' $4 5) 5' ' "9< 4" 240 ' : 4 B& '" <D 5"<B' 2' A4A< F' 42B' "9< G< 2 ; <2'" @ : 0B' 4'" 42?' " ; < 0 A04@< '" 2' 42' 4@" G< " 2 -' 2' @45< ' 2<<B) $: @9?& 2' 4@"& B B' 5 ' 2' K W) ! : C5<N : <2"0?' 4A 0< 2' < -42 5<B' "' C?' "9< ! <24" : 5 25 : 0" : ;' ' ; @9' K & K K) '" =45 " ' @ 25 5'" ' 400 ; 40< @ " a<25' ' 5 : 2B' 9<40"9& B G B<B' 2" ' "9 <' 0<G <5 ; 5E) ' "9< 5'" 0<G?' C<0 2 -<B' 400 "9 5< ; <2& 4 -<B ; ' ' " ' & = 9 ' B B' 2 '" C<0 2 -' " ' "9< <- : 04 8 ?4 ; ?F " ' "9< 5<@ 2B' "9 5<' C<"=<<2' ' 42B' Z ' Ü42B' " ' "9< "9 B' 400 +[' "9 5< C<"=<<2' Z ' 42B') 9< 4" 240 : 4 B' =45 0 4C0< " ' 5< G< 20?' 2' "9< 4 ; < B< <2@< ' "9< ; A <& 2' "9< ; 4 2"<242@< ' A : C0 @ 5<@ : "?& 42B' 2' "9< 2" < ' 42B' "9< @ 45") 2' "9< <G<2'" ' "9< @ : 2" ?' C< 2 -' 2G4B<B' 42' <G<2" : 40 0?' = 9 @9' =45 2 '" 0 2 -' 2' A <5<2" 2 -' "5<0 E ' "5' ['@ 9 "5' \' 42B' "5' ['0<- 25' \' = : 0B' 94G< C<<2' 42' 2G40 : 4C0< <5 : @<& 42B' 45 '" =< < 4' 045'" < : -< ' <2@9' A4" " 5 ;) 6 : "& 2' 6) K &]NE 0< 2' B<5" ?<B' "9< - 240 @94 4@"< ' ' "9< 4" 240 : 4 B& C ?) & <2 00 2 -' 400 "5' C<5"0 ; < ' <- : 04 ' " B A5' 2' "9< 5'" 0<G?' ' 5< G @< 2' < ; 42?) <2@< "9' "9< 4 " 8' : 4 B' =45' 45' 9 4 8 B 2 8 "8' ' "9< A< A0< 45' @ 25@ A" 2' "5<0 F' 42B0 %9< & 4 ' ' "9< <2B' ' K K ' 42B' 2' K KZ& "9< ; A< & 45' 4' 045'" <5 : @<& @400<B' : A' 400' "9< ' 42B' B< <B' 4' ' ! ' # "9< @ : 2" ?' B B' 2 '" 5A 2B) & : '" '" =45' 2 '" <2 : -9' " ' <@ : '" 5 0B < 5F '" =45' 2<@<554 ?' " ' A G B< ' "9< @ 5'" ' "9< ' ; 4 2"<242@<) 9< 9 5" ?' ' 242@< : 2B< ' "9< ' 5'" ; A < = : 0B' 5<< ; & G <=<B' 5 : A< @ 400?&" ' 59 =' 4' ; <' 54" 5 4@" ?' <@ B' "942' "94'" ' 4 ; ?' <@ : " 2 -) 2B' ?<"& = 9<2' 4A 0< 2' <00& C : '" 2< @ ?' =<2'" A' ; ' "9< = 9 0< ' ' 42@<.' [' = 2' = "9' @@4 5@ A" 2' 42B' "9< ' X&)

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KK " ' ' * , 8 ' $! , . '

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K K K ; % + > % +

<@ 2 ; @5& 42B <5" <B " 9< A 5" 2< G - : 25" ": " 25 =9 @9 "9< <G 0: " 2 94B 5: AA 85<B) ; 42 <5" <" 4 " =4 B5 8 < - : 0B 5?5"< ; "9< 0B =45 G 5 C0< 2 "9< @ <4" 2 @ ; ; < @ 40 <D@942-<5 = "9 C >< 4 42B CC< 5 4AA 2"<B C?"9< G< 2 ; <2" K KE& 2 "9< <@ 25" :@" 2 8 < 94 ; C< 5 ; ; < @< K E& 2 "9< ; 4" 2 BG 5 ?" 4 B5 2 @ 22<D 2 = "9 ; 42: 4@": <5& 4@" <5& 4 "5 42B @ 4 "5 K E& 2 :5< :0 25" ": " 2 ! O 6& K E& 42B 2 "9< <-: 04" 2 @< "4 2 0 C< 40 A <55 25)

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K % K 8 " % ' , ' ! . . + . K

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K ' , ' ! 2& % I

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00' : "' "9<' <@ <<' ' ' <C : 4 ?' U& K K & =9 @9' -42 5<B' "9<' -<2< 40' @<25 59 A' ' A 2" 2-' 42B' A : C0 59 2-& =45' 5" @"< ' 5" 00)' 9<' 2 : ; C< ' ' A 2"< 5' =45' 0 ; "<B.' 2' $4 5' "' =45' 2 "' " ' <D@<<B' 5 D"?)' $ 2"< 5' 94B' " ' "4><' : "' 0 @<25<5' 42B' " ' 5=<4 ' 42' 4"9F 42B' @42B B4"<5' ' 0 @<25<5' ; -9"' 2 "' "4><' 9<' 4"9' [' ; " 0' "9<?' 94B' - G<2' A ' ' "9< ' @4A4@ 0?& ; 40' @94 4@"< & 42B' 4""4@9 ; <2"' " ' "9< ' @ : 2"8' 42B' "9< ' 5 G< < -2)\' >5<00< !' 405 ' =< <' " ' C<' 0 @<25<B' 42B' 5= 2& C : "' "9< ' 2 : ; C< ' =45' 2 "' <5" @"<B)' < <' C< 2 -' A 2"<B& <G< ?' = >' 94B' " ' C<' 5 : C ; ""<B' " ' "9< <2< 40' 8 59 A& 42B& 2' @45<' 4AA 8& " ' "9<' 2 5"< ' ' "9<' 2"< F C : "& <G<2' 4 "< ' A< ; 55 2' - G<2& "9<' -<2< 40' A 0 @<' 42B 0 <' A < <@"5' @ : 0B')5 : 5A<2B' A : C0 @4" 2)' 9<' 5<G< "?' 59 =2' C?' "9<' <2< 8' <25 59 A' 42B' "9<' A 0 @<' 2' B<40 2-' = "9' 2"<00<@" : 40' 4@" G "?' =45' 40 ; 5"' 2@ <B C0<)

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K Z) ! ' ' &1; % ' + K' 5$ >%$>

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CHAPTER VI.

THE CODES.

THE codification of French law, if it was probably the most durable, was certainly not the most surprising manifestation of Napoleon's energy. It was the fulfilment of an aspiration, as old at least as the fifteenth century, and partially realised by the ordinances of kings and the text-books of jurists—an aspiration for the legal unity of France, for "one weight, one measure, one law." To this ideal the Revolution imparted a fresh and powerful impulse. The birth of the new nation, the triumph of the new civic enthusiasm, the victory of philosophic reason, seemed to demand a code of uniform laws suitable to an enlightened people. At the same time, all those social obstacles which had hitherto stood in the path of legal unity were swept away—provincialism and feudalism, caste and corporation, the wealth and influence of the Church, the power and prestige of the Crown. The whole law of property and of persons was remodelled by the Revolutionary Assemblies under the stress of a democratic theory as coherent as it was imperious.

The land was liberated from feudal dues and tithes; and its freedom was secured by the prohibition of all perpetual and irredeemable rents. The corporate property of the Church and of the rural communities passed almost entirely into the hands of the State, and was thrown piecemeal into the market. Again, as the land was freed to guard against tyranny, so it was divided to promote equality. The Roman law of succession, which was favourable to testamentary freedom and therefore to inequality, was set aside; and the egalitarian tendencies of the Custumals were developed and sharpened. Wills were almost entirely forbidden; the distinction between moveables, acquisitions, and patrimonial property was abolished; and the inheritance, considered as a uniform mass of property, was to be divided equally among the heirs. Still further to promote territorial equality, representation was declared to be infinite in the direct line; donations were to be returned to the donor; natural children were recognised, and gifts to the rich prohibited. Thus, while the law fortified the proprietor during his lifetime, it weakened his influence after death.

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Jacqueminot in submitting his draft to the Commission. The reporter fully acknowledged that the work of his committee had been hasty and imperfect, but urged in extenuation that it was necessary to put an end to the scandal of the Revolutionary divorce laws, to restore to parental power its lawful authority, and to widen the liberty of testamentary bequest. So instantaneous was the reversion from Revolutionary excesses to the old and pertinacious tradition of French jurisprudence! The draft of Jacqueminot was in itself of no consequence. Composed in the brief and unsettled interlude between the fall of the Councils and the establishment of the Consulate, and far inferior in elaboration and technique to the earlier work of Cambacérès, it was not even discussed for five minutes. The Legislative Commission was confronted with larger and more pressing problems; but it is well to remember that, before their task had been completed, and while the lineaments of the Consular Constitution were still under discussion, the spirit which was destined to inform the *Code Napoléon* had spoken and revealed itself. The laws of France, as they had been left by the Revolutionary Assemblies, were to be coordinated and reduced to system; but philosophical idealism was to be corrected by juristic tradition, and the political extravagance of the passing hour utterly effaced. Law was to be the expression of settled national character, not of every passionate and casual mood.

The Civil Code.

The desired moment of calm came after the battle of Marengo had secured the frontier of France, established the prestige of the Consulate, opened the avenue to an honourable peace, and liberated the energies of Bonaparte for the civil organisation of the State. On August 12, 1800, a committee of four lawyers, Tronchet, Portalis, Bigot de Préameneu, and Maleville, was appointed to draw up a project of a Civil Code, with instructions to bring the work to a conclusion in the following November. Every committee has a head and a tail. Though Maleville was a capable lawyer and afterwards distinguished as the first of a long line of commentators on the Code, and though Bigot's adroitness and pliancy were destined to be proved in more fields than one, the driving power in this committee lay with Tronchet and Portalis. Of these two men, Tronchet, the venerable president of the *Cour de Cassation*, stood for massive learning, sound judgment, and conservative caution; while Portalis, if less eminent in knowledge than "the Nestor of the aristocracy," was specially distinguished in the art of legal and philosophical exposition. "He would have been," said Napoleon, "the most eloquent orator in the Council if he had known when to stop"; but, save for its fluency, the chastened eloquence of the great Provençal jurist had little in common with the exaggerated rhetoric of the Clubs. Portalis was a thinker, a Catholic, and a conservative. A true parliamentarian,

in the French sense of the term, he had opposed legal unification in 1789 on the ground that a code would be the precursor of despotism; and ten years later, when the Directory was tottering to its fall, he expressed to a friend his earnest desire that a liberator might be found to free France from the toils of Revolutionary legislation. It was certain that he viewed divorce with aversion, and that his will would be cast into the scale of moderate reaction towards the past. While Portalis and Maleville represented the legal traditions of the land of written law, Tronchet and Bigot had been trained in the *Parlement* and the Customs of Paris; and the Civil Code, which was the result of their labours, exhibits many traces of compromise between northern Teutonism and the Latin inheritance of the south.

The draft of the Civil Code was completed in four months and printed on January 1, 1801. It was then, by order of Bonaparte, sent to the law-courts, which were invited to submit their criticisms and observations in the course of the next three months. In the light of this commentary the draft Code was then examined and revised by the legislative section of the Council of State, composed of Boulay, Berlier, Emmery, Portalis, Réal, and Thibaudeau; and, when this process was completed, it was submitted title by title to the whole body of the Council. It was at this stage that the provisions of the Code first came under the notice of Bonaparte.

Eyewitnesses have described the vivid and animated drama which was enacted whenever Bonaparte came down to preside over the Council-chamber in the Tuileries. A clink of arms, a roll of the drum under the arcades, and then, as the door opens, and the usher calls, and the councillors rise in salutation, the master steps briskly up to his green table on the dais, nods to Cambacérès on his right, to Lebrun on his left, signs to his Council to be seated, and with his "*Allons, Messieurs, commençons*," sets the debate aflame. Under the Consulate, these discussions were free, vivacious, and unembarrassed; and, when the First Consul presided in person—and he presided over thirty-five of the eighty-seven sittings devoted to the Civil Code—they were generally prolonged till a late hour in the evening. His too was the most quickening spirit in debate. With little legal learning, save what he had gathered from snatches of reading or from the talk of Tronchet and Portalis, and devoid of the scholarly temper of the professional draftsman, he possessed so luxuriant an intellectual nature, so lively a power of concrete vision, so keen an instinct for the large issues of politics, that his contributions to the discussion were a series of splendid surprises, occasionally appropriate and decisive, occasionally involved in the gleaming tissues of a dream, but always stamped with the mark of genius and glowing with the impulses of a fresh and impetuous temperament. Lanfrey has indeed urged that the official report of the proceedings, drawn up by Locré, the clerk of the Council, has imparted a correctness

to Bonaparte's language which did not belong to it, and has effaced the eccentricities which would have betrayed the novice in legislation. This is true. Bonaparte often talked at random, and some of his warmest admirers in the Council complained that he fatigued the attention of his audience by the confused abundance and the unexpected turns of his thought. On the other hand, it is equally true to say that the grave and chilly language of the official reporter has robbed the First Consul of all his peculiar verve and most of his originality.

"He spoke," says Thibaudeau, "without embarrassment and without pretension. He was never inferior to any member of the Council; he often equalled the ablest of them by the ease with which he seized the point of a question, by the justice of his ideas and the force of his reasoning; he often surpassed them by the turn of his phrases and the originality of his expression." At one moment he would embark upon the most adventurous of intellectual cruises; at the next he would propound some prim legal definition. Here would be a flash of anger; here a string of anecdotes; here a friendly passage of badinage punctuated by snuff-taking; here a flight of gaudy rhetoric. But the prevailing impression left on the reader of these debates is the union in the mind of the chief debater of hard-headed common sense with imaginative vision. He thinks, not in legal rules but in concrete cases, keeping always in sight the gain and loss to the whole State, the political advantages and disadvantages to France. "You act as law-makers," he cried once, "not as statesmen. It is by speaking to the soul that men are electrified." He was in fact the amateur of genius, learning as he went along, throwing off opinions as sparks fly from the anvil, shaking himself free from the views of yesterday if they embarrassed him or were plainly overpowered, but always capable of making a contribution to the discussion by his sheer power of seeing principles as they would work themselves out in the life of the individual or the State. "I first thought," he confessed, "that it would be possible to reduce laws to simple geometrical demonstrations, so that whoever could read and tie two ideas together would be capable of pronouncing on them; but I almost immediately convinced myself that this was an absurd idea"; and in one of the last sittings of the Council he pronounced what legal opinion has felt to be the true criticism on the Code itself. "I often perceived that over-simplicity in legislation was the enemy of precision. It is impossible to make laws extremely simple without cutting the knot oftener than you untie it, and without leaving much to incertitude and arbitrariness." Yet Bonaparte's appreciation of the complexity of the task was only equalled by his impatience to despatch it without delay.

As each Title of the Code passed the Council, it was submitted successively to the Tribunate and the Legislative. The spirit of these two assemblies was in the early days of the Consulate tolerably independent; and the debates of the Tribunate were often distinguished by

common sense. But Bonaparte was impatient of delay; and, through no fault of its own, the action of the Tribunate was bound to wear the aspect of obstruction. By an inept clause of the Constitution, that body was debarred from proposing amendments to the laws which were submitted to it. If, then, the Tribunes were to give practical effect to their criticism of an article, they were forced to throw out the whole Title of which that article formed perhaps only an inconsiderable part. The alternative was one which no self-respecting public men could accept; and, refusing to accept it, the Tribunate was deprived of the power of publicly debating the Civil Code.

The First Book of the Civil Code treats of "Persons," the Second of "Goods and the various kinds of Property," the Third of "The various modes in which Property is acquired."

The French Revolution was justly charged with having disturbed the foundations of family life. In order to stimulate the subdivision of property, it had, by its encouragement of adoption and its recognition of natural children, introduced new members into the family, while, with the same clear intention, it had restricted the testamentary powers of the father, equalised the sexes in marriage, and facilitated divorce. In the strong reaction which had set in against these ideas Bonaparte fully participated. He held that the legislator, far from encouraging the indefinite subdivision of property, should aim at securing a nation of moderate fortunes. He was a keen advocate of the subjection of women. He thought that it was the function of law to chasten loose morals, to exhibit the solemnity and sanctity of marriage, to strengthen the authority of the father, and to maintain the cohesion of the family group. All these views—and they were by no means the exclusive property of Bonaparte—are reflected in the provisions of the Code. If adoption was retained, the institution was accompanied by so many precautions that it could no longer be regarded as a deterrent to matrimony or a menace to family life. The adopter must be childless and over fifty years of age; and the adopted is not to sever the ties which bind him to his natural family. Nor can adoption take place so long as the adopted is a minor. Again, a clear line of separation was traced between the lawful and the natural child. "Natural children are not heirs. The law only accords them a claim upon the goods of their deceased father and mother when they have been legally recognised." Even so their share is reduced to a third, a half, or three-fourths of what it would have been had they been born in wedlock; a third if the father or mother have left lawful descendants; a half, if they have only left ascendants, brothers or sisters; and three-fourths where there are neither descendants nor ascendants, to claim the inheritance. In vain Cambacérès pleaded that in certain cases the parent should be compelled to recognise the child. "Society," replied Bonaparte, "has no interest in the recognition of bastards," and he set his face against facilitating

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4@"5 "9< G 0 !"4"<& 2 @42 59< 4@" 45 - : 4 B 42 ; A4 " "9< 4 ; 0?@ ; @ 0 : 20<55 59< 5 "9< ; "94. A< "9< 45@<2B42"5) 5 4 = < 59< 5 5 : C <@" " 9< 9 : 5C42B&5 ; B 945 2 G @< 2 "9< 4B ; 2 5" 4" C< @ ; ; 2 A A< "?& 8 < @422 " - G<& 5<00& ; "-4-<F < @422 " 4@N : < C?540< - " = "9 : " "9< 9 : 5C42B&5 = ""<2 @ 25<2" 20?9 59< 5 @4 ? 2 - 2 4 5<A4 4"< " 4B< @42 59< ; 4>< 4 @ 2" 4@" = "9 : " 9< 9 : 5C42B&5 4 : "9 "?) 9< = ; 42 "9< G 0 B< 5 <-4 B<B 45 4 @>0<& B< <2@<0<55& ; 2B0<55 C< 2 - F 42B 9< 04A5<5 9 ; G ": < 4 < A : 2 59<B ; < 5<G< <0?"942 "9 5< 4 ; 42) [9 : 5C42B&\ 54 B 4A 0< 2& [: - 9 " " 94G< "9< - 9 " " 547?" 9 5 = <. ? : 59400 2 " - : "& ? : 59400 2 " - " "9< A04?& ? : 59400 2 " 5<< 5 : @9 42B 5 : @9 4 A< 5 2)\ %9<2 4 : 2@ 00 45>8 = 9<"9< = <0?C<B <2@< 94B C<<2 A <5@ C<B 2 "9< 0B 04=5 ' 42@<& "9< ' 5" @ ; 5 : 0 ": 2<B : A 2 9 2" 594 A0?) [% 94 " 4 N : <5" 2L\ 9< @ <B) [? : 2 " >2 = "94 " "9< 42-<0 " 0B G< " C<?9< 9 : 5C42B g)) R2*0 "?945 = ""<2 "9 5 4 " @0< 2 400 042 - : 4-<5) + 59 : 0B " C< = ""<2 2 ' <2@9 2 : B<)\ 04= ! ; < "9< 04= @ : "5& =9<2 @ 25 : 0"<B : A 2 "9< 5" B 4 " "9< B<& B<@04 <B 4-4 25" B G @< 40" -<"9< & 42B 455< "<B "94"& 45 4 ; 4""< 4@"& 2 <@ : 5< 94B C<<2 ; 4B< " " 2 "9< A G 2@<5) % "9 "9< 5 2-0< <D@<A" 2 "9< C : 240 $4 5& <G< ? : " 2 ' 42@< <@"<B B G @< 2@ ; A4" C 0 "?F 42B8 "9< C : 240 $4 5 5" A : 04"<B "94" 2@ ; A4" C 0 "? 59 : 0B C< A G<B 2 @ : ") "=45 4 N : <5" 2 : A 2 =9 @9 24A4 "< 9 ; 5<0 =45 A : 2B0?2"< <5"<B) 2 8 < 2< 942B& = "9 9 5 5" 2 - G <=5 45 " "9< 5 : C <@" 2 "9< =<4>< 5<D 42B "9< G40 : < 4 ; 0?@ 9<5 2& 9< =45 4G< 5< ; 42?A G 5 2 =9 @9 ; -9" <2@ : 4-<"9< 0<G "? 4 : - ; <2" "9< 0 C< "? = ; 42F 42B 5 A =< : 0 =45 "9 5 <<0 2 - 2 9 ; "94" 9< 5 : C5<N : <2"0? A 9 C "<B B G @< ; < ; C< 5 "9< ; A< 40 4 ; 0?) 2 "9< "9< 942B& 9< <@ -2 5<B "94" B G @< ; -9" 5< G< 9 5 = 2 " : 2& 42B "94" = "9 2 @< "4 2 MA <5@ C<B C : 2B5 " =45 2<@<554 ? " 5 @ <"?) 5 9< 54 B 4" ! " <0<24& [" ; 4>< ; 4 4-< 2B 55 0 : C0< 5 " A G >< ! ! # 42B " A : " "9< G 004-< 4C G< "9< 04=)\ 9< : 2@ 0 " =45 5 : C5"42" 400?4- <<B : A 2 "9< 2<@<55 "? 4B ; "" 2 - "9< A 2@ A0< B G @<& "9 : -9 " =45 = 00 2 - " ? <0B " 4"9 0 @ 5 : 5@<A" C 0 " <5 5 4 5 " <5" <0 : B @ 40 5<A4 4" 2 ; ""<B 2 "9< 5" B ; "E 45 42 40"< 24" G<) =45 "9 8 42?B : C " "94"& =9 0< B G @< - 4G< 5A<@ @ @4 : 5<5 59 : 0B C< 4B ; ""<B& B G @< 2@ ; A4" C 0 "?4 " "9< B< ; 42B 2 < "9< A4 " <5 59 : 0B C< <0 ; 24"<B ; "9< B<) 9< ; 4 2 @ 2"<5" 4 - <B G< B G @< C? ; : " : 40 @ 25<2"F 42B& C : " "9< 5" 2 - 4BG @4@? "9< ' 5" 25 : 0&

"9 5' = :0B' 2 '" 94G<' C<<2' <@< G<B' 2" ' "9<' B<') 24A4 "<!5'@ 2"<2" 2' =45' "94'" B G / *' ' 5A<@ @' @4:5<5' % @BB' 2 '" 9<' 5: @<2")' 9<' <2@<5' @ 2"< ; A04"<B' =<' <' 2 '" 20?' B @:0'" " ' A G<&! 9:"& 2' "9<' 4""< ; A'" " ' A G<' "9< ; & "9<' = 2-<B' 42B' "9<' = 2- B < ' =<' <' 40 ><' B 4A<B' 2" ' A:C0@ "?')' ['<=' ; <2' 4 <' 5 ' 0 5'" " ' 594 ; <'45' " ' A B4 ; ' "9<' ": A ":B<' ' "9< ' = G<5)' '" = :0B' C<' 5@42B40 :5' 42B' 4- ; 25'" "9<' 9 2 : ' ' "9<' 24" 2' " ' <G<40 =94'" A455<5' 2' 5 ; <' 9 :5<9 0B5)b

0 4@" @40 42B'A 0" @40@ 25 B< 4" 25' "9< < <'@ 2@: <B' 2'5 8<5"02-' 094'" "9 5' ; ' B 55 0G 2-' "9<' ; 4 4-<' :2 2' 59 :0B' C<' 5:AA0< ; <2"<B' C?' 42' 40"< 24" G<' <DA<B <2" =9 @9' 59 :0B' C<' 4'" 2@<' ; <' A G4"<&! ; <' 9 2 : 4C0<&! 42B' ; <' A A:04)' 24A4 "<' =45' = 00 2-' " ' @ 2@<B<' "94'" :2 25' 59 :0B' 2 '" C<' 85 0G<B' 4 "<' '0 ; ?' 94B' <2B: <B' "<2' ?<4 5' M 9<' =45' = 00 2-' " ' A <G<2'" "9<' 54 ; <' A< 5 2' ; ' B G @ 2-' "= @<F 9<' : -<B' "94'" "9<' 04=' 59 :0B' C B' B G @8' A< 5 25' ; ' < ; 4 ? 2-' = "9 2' G<' ?<4 5)' :"& 9<B-<B' ; ; B' C?' "9<5<' 54 8:4 B5&! B G @<' C?' ; :"':40 @ 282'" ' 2@ ; A4" C 0"?' ' "< ; A< ' =45' 2' 9 5' G <=' <55<2" 40 " ' ; 4 "40 94AA 2<55)' 05' ; 4 <B' ? :2-F 42B&! "9 :-9' 9<' 94B' 5:@@<<B<B' 2' 4 5 2-' "9<' 4-<' ; ' "9 "<<2' " ' "<<2&! 9<' 94B' 2 '" 4 5<B' '" 45' 9 -9' 45' 9<' = 59<B)' 2' ; 5'" @45<5&! 4' ? :2-' - 0' <59' ; ' 5@9 0' ' @ 2G<2'" @ :0B' 2 '" >2 =' =9<"9<' 9<' 9:5C42B' = :0B' A G<' @ 2-<2 40F 2' ; 5'" @45<5' 4' ; 4 4-<' =45' 42' 4 4 ' ' @ 2G<2 <2@<)' '" =45' =<00 "94"&! =9<2' ; 5"4><5' 94B' C<<2' ; 4B<&! "9<?' 59 :0B' C<' 4A4C0<' ' C< 2-' @ <@"<B' = "9 :"2 5<' ' 5@" ; B40)' @@ B 2-0?' 9<' A A !8' "94'" "9<' 4 8 ' 59 :0B' C<' C :-9'" C< <' 4' 4 ; 0?' @ :2@ 0' A <5 B<B' G<' C?' 4' ; 4- 5" 4"<F "94'" "9<' <04" 25' 2' C "9' 5 B<5' 59 :0B' C<' :242 ; :5F 42B' "94'" = "9' "9< ' @ 25<2'" 9<' : '" 59 :0B' A 2 :2@<' "9<' B G @<' = "9 :"<D4 ; 24" 2)' [' ' B ' 2 "9 2-' 4-4 25'" "9<' ; 4 <B' A< 5 25&!b' 9<' 54 B&! [' 5 2@<' ' <N: <' ; :":40 @ 25<2")' ' B ' "9 2-' 4-4 25'" ; 4 4-<&! 5 2@<' ' B< ; 42B' "9<' 4B9<5 2' '"9<' <04" 25)b' 6:B @ "B' 584 4" 2' =45' 2' 9 5' G <=' 4' C4B' <DA<B <2"&! ' "' 2G 0G<B' A:C0 @ "?' 42B' 4G : <B' ; ; 40 @ 2B:@"')' "' ! '" <0<24' 9<' 4BB<B&! = "9' A<2<" 4" 2&! "94'" "' =45' [' 4' ^^ ' ! ' =9 @9' @ :0B' 20?' C<' 4AA0 <B' " ' "9<' :AA<' @0455<5)b' 00' "9 2-5' "9<2' @ 25A <B' " ' @ ; ; <2B' "9<' 4B A" 2' ' 5 ; <' A G5 2' ' B G @<' C?' ; :":40 @ 25<2")' "< ' 0 2-' B<C4"<' "9<' ' 5'" 8 25 0' A <G4 0<B' 42B&! 5: :2B<B' = "9' 4' 04 -' 2: ; C<' ' J' <5" @" 25&! E B G <<' C?' ; :":40 @ 25 ; '" A4558' 2" ' 04=')') S

' 0<55' <40 :5' =45' "9<' 4"" ":B<' ' "9<' :2@0' " =4 B5' B G @<' ' * [5A<@ <B' ; " G<5)b' 9<' A 55 C0<' @4:5<5' =<' <' <B:@<B' ; ' 5<G<2' " ' "9 << 3 4B:0"< ?&! 42 <0"?&! 42B' "9<' @ 2G @" 2' ' 2<' ' "9<' A4 " <5' ' 4' - 4G<' @ ; 240' <2@<F 42B' "9<' 2G<5" -4" 2' 2" ' "9<' 4@"5' =45' " 425 < <B' ; ' "9<' 4 ; 0?' @ :2@ 0' " ' "9<' 04= @ "2 ")' '" 5' 4' @: :5' 4@'" 2' 9: ; 42' 24": <' "94'" "9<' <DA< ; <2'" ' <2" :5" 2-' "9<5<' B<0 @4"<' <2N: <5' " ' "9<' 4 ; 0?' @ :2@ 0' C ><' B =2&! 2 '" 5 ' ; :@9' C?' <45 2' ' "9<' 2@ ; A<"<2@<' ' "5' ; < ; C< 5' 45' C<@4:5<' ' "9< ' 59<< ' 2B < <2@<' " ' 42' 55:<' 2' =9 @9' "9< ' 5<2" ; <2"5' 59 :0B' 94G<' C<<2' ; 5'" @0 5<0?' 2G 0G<B)

')

<-:04"<B' "9< " 425 < ' 'A A< "?' =45' ; B <B' 2' 5<G< 40 ; A "42"' A4 " @:04 5& ' 540< ' ; ; G<4C0< A A< "?' < :0B' C< <5@ 2B8' ' ' ' # '"9< 5<00< ' C4B' C<<2' B< 9 ; B<B' ' ; < "942' 5<G<2 ' "=<0 "95 '"9< A @<F 42B' "94"& " &<G<2' 'C< C4B' <DA <5B?' <2 :2@<B' C 5' -9"' "4><4@" 2' '"9< <5@ 55 2' '"9<@ 2" 4@")' !:@9'4'A G 5 2' ; A0 <5')"94"' "9< < 5' 4' :5"' A @<& "9< <5:0"' '@ ; ; 2' A 2 2F 42B' "94"& 'A A< "?' 5' 5 0B' '0<55 "942' "' 5' = "9& "9< !"4"< 59 :0B' 5"<A' 2' " 'A "<8' "9< -2 42"' G<2B)' 9< B @" 2< 94B' C<<2' <A:B 4"<B' C?' "9< 2G<2" 2& =9 @9' 94B' 4C 0 59<B' "9< 4@" 2' ' <5@ 55 2' 2' KYWUF C:'' "' =45 9 "0?' @94 ; A 2<B' C?' "9< ' 5"' 25:0& =9 5< 94" <B' '"9< !" @>' D@942-< 42B' '4 ; ?'@ 2" 4@" 5' 0<B' 9 ;' " '=<0@ ; < 42?' <DA<B <2"' ' <A:B 4" 2-'4'@ 2" 48)

% "9' 4' 5 ; 04 ' 4 ;' 'B< <4" 2-' "9< ; 4@9 24" 25' ' 242@< 5& "' :. =45' 2" ; 4"<B' 2' "9< B< "94"' "9< 4"< ' 2"< <5"' = :0B' C< D<B' C?' '7 04=')' [2"< <5"&\' 5 ' :25' "9< "<D"& [5' 0<-40' ' @ 2" 4@":40')' (<- B' 2"< <5"' 5' D<B' C?' 04=')' 2" 4@":40' 2"< <5"' ; 4?' <D@<<B' 0<-40' 2"< <5"' =9<2<G< ' "9< 04=' B <5' 2 "' A 9 C ")\' "' =45 :8-<B' 2' B< <2@< ' "9< A 2@ A0< ' <-:04" 2' "948' <G< ' 5 2@< "9< @ ; G<2" 2' 94B' B<@04 <B' ; 2<?' " ' C< ; 4@942B 5<& "' 94B' C<<2' 0 42<B' :"' 4"' :5: :5' 4"<5')' <G< "9<0<55& "' =45' 2 "' :2" 0 !<A"< ; C< & K Y& "94"' "9< 4"< =45' 4@":400?' D<B 3 C?' 4' 04=' =9 @9& 45' 4A 0< 2' <2 4 ><B' " ' <2& B B' 2 "' C<0 2-' [" '"9< 5?5"< ;' '? :' *

2B 'N:<5" 25' 4 5< = "9' 84 B' " '0<25' 42B' ; "-4-<5)' !9 :0B' "9< 04=' <N: <' "9< ;' " 'C< 5A<@ 400?' 4""4@9<B' " ' 4' A4 " @:04 'A <@< ' ; ; G<4C0< A A< "?' 9< 2G<2" 2& =9 @9' B<5 <B' " ' 4@ 0 "4"< 042B " 425 < ' " '"9< : "9<5"' <D"<2"' A 55 C0<& B<@ B<B' 2' KK' : ; 4 <& ?<4 ' ' G)' K& KYW E C "9' '"9< A22@ A0< 'A:C0 @ "?' 42B' '"94"' '5A<@ 40"?)' :"' "9<5< :0<5 5<< ; <B' " 'G 0<2"' 4' B<A4 ": < ; 'A <G :5' @:5" ;')' "' 5" :< "94"' 2' "9< (=' :2" <5' ; "-4-<5' 94B' 0 2-' C<<2' A:C0 @0?' 25@ C<B' 42B' 5A<@ 400?' 400 @4"<B' C:'' 2' ' 42@< "9< 5<@ <" G<2<55' '42' < ; C4 455<B' 4 5" @ 4@?' 94B' <5 5"<B' 5 ' CG :5' 4' ; <"9 B' ' 4@ 0 "4" 2-' @ <B ")' ' "9 "?' : "5' AA<40' @ 25:0"<B' :A 2' "9< A 2"& 20?' 2 2< =< < 2' 4G : ' ' ; 4 2"4 2 2-' "9< (4=' ' : ; 4 <)' 9< 0<- 504" G< 5<@" 2' ' "9< :2@ 0 =45' B G B<B& 42B' "= 'A0425' =< < 5:C ; ""<B)' '' =45' 400<-<B' "94"' "9< (4=' ' : ; 4 < G 04"<B' 4 ; 0?' 5<@ <"5& B<5" ?<B' @ <B "& 42B' 2 : <B' "9< @ @:04" 2' ' =<40"9F "94"' 25@ A" 2' =45' @ 5"0?' 42B' 2m < <@":40'F "94"' "9< A 2@ A0< '5A<@ 40"?' =45' 2@ 25 5"<2"' = "9' "9< -9"'5 'A A< "?& C<@4:5< "9< B<C" ' =45' C :2B' " ' :0 0 9 5' <2-4-< ; <2"'5 :A 2' 400 9 5' A A< "?' 42B' 2 "' :A 2' 5 ; < 5A<@ 40 A4 "' ' ")' :"' "9< ; 5"' G40 B' A 4@" @40 C <@" 2' " ' "9< 04=& 45' "' 5" B& =45' "9< 2 ; ?' =9 @9' ; -9"' C< 2 0 @"<B' :A@ ;' = G<5' 42B' ; 2 5' =9 '94B' 2 "' "4><2' "9< 5"<A' ' 25@ C 2-' "9 '0< 8 ' @04 ; 5' :A 2' "9< A A< "?' ' "9< ' <5A<@m " G< 9:5C42B5' ' ":" 5)' 9< B G 5 2' ' A 2 2' A 2"<B' " ' 4' @ ; m A ; 5<' 42B& =9 0<' "9< A:C0 @ "?' 42B' 5A<@ 40"?' '0<25' 42B' ; "-4-<5

' ')

K Z_ ; # , K K

0A G 5 25) "4><' 2<' 25"42@< 3 8'9<' 5?5"< ;' <2"4 05& < <@"<B' 2' K =45' <5" <B' 2' K & 42B' 2@0: B<B' 2' "9<' B<' 2' K Y)' 9<' :2@ 0' !"4"<' 94B' 2 A4 "' 2' "9<' "<@92 @40' B 5@:55 2' "9<' B<& =9 @9' =45' 0< "' "9<' : B 4 "5 ; <2& =9 =< <' -2 42"' ; 42' 04=)' 9<' :B @ 40' 0 "< 4": <' ' 42@<& @ 25 5" 2-' 40 ; 5"' <2" <0?' $ "9 < & ;' =9 5< " <4" 5< "9 << : "95' "9<' B<' =< <' <D" 4@"<B& =45' A " 4C0<F' 42B' "9<' 5<0<@" 2' 5: C <@"5' =45' 2 "' B<"< ; 2<B' C?' <DA< <2@< 42B' A 4@" @40' >2 =0<B-<& C: "' C?' "9<' 25" ": "<5' 6:5" 2 42)' 9<' B< =45' 2@ ; A0<"<F' "' 94B' " ' C<' 5: AA0< ; <2"<B' C?' <D"< 240' 4: "9 "?& 42B& 4 ' ;' C< 2-' 42' -42 @ A B: @"& =45' C: "' 4' ; <@942 @40' ; D": <' '9<' <5: 0"5' '9<' <G 0: " 2' 42B' "9<' 0B' ' ; 42' 04=' 42B' "9<' @: 5" ; 5)' : 5" 2& " & @ 2B< ; 2<B' "9<' 945"<' 42B' -2 42@<' '9<' B 4 "5m ; <2& "9<' 4C5<2@<' B< 2 " 25' '"<@92 @40' "< ; 5' 42B' '42?' A G 5 2' ' 4 ; <2B ; <2")' 9<' :2@ 0' ! "4"<& 9<' A 2"<B' :"& "<2' B<G "<B' - <4"' 4""<2" 2' " ' A 2"5' '2 ' ; A "42@<& =9 0< 2<-0<@" 2-' ; 42?' G "40' N: <5" 25' '4 42-< ; <2"' 42B' <DA <55 2)' 9<' B<' ; :5"' 2 "' C<' <-4 B<B' 45' 4' C B?' '04=' ; 2-' 4' 5: C5"42" G<' =9 0<& C: "' 45' 42' 2B<D' " ' 42' ; ; <25<' C B?' ' : 5A : B<2@<' <D 5" 2-' : "5 B<' "5<0)

9<' G 0' B<' 945' 405 ' C<<2' @ " @ 5<B& : A 2' <@ 2 ; @' - : 2B5& 45' 7' " ' 4G : 4C0<' " ' "9<' 5: CB G 5 2' ' A A< "?)' ' ;' "9 5' @4: 5< 5 ; <' 94G<' B<B: @<B' "9<' 04@>' ' @ ; ; < @ 40' <2"< A 5<& "9<' 2B2<55' ' 54 <' 2G<5" ; <2"5& 42B' "9<' 5"4" 24 ?' @<25: 5' <": 25' =9 @9' "9<?' <-4 B' 45' @94 4@"< 5" @' ' ' 42@<)' 9: 5' (<' $04?' @ 2"<2B<B' 8"94"& C< <' "9<' < -2' ' (: 5' X & "9<' ' <2@9' A<4542" ?' ; 4B<' :5<' ' "9<' ' "<5"4 ; <2"4 ?' <<B ;' " ' ><<A' "9<' ' A A< " <5" " -<"9< F' 42B' "94"' "9<5<' 94C "5' <5: 0"<B' 2' 42' 4B ; 4C0<' 5 @ 40' -42 54" 2' 42B' - <4"' 4- 4 42' A 5A< "?)' ?' B<- <<5& 9 =<G< & "9<' 0B' " 4B " 25' ' = >' 42B' <@ 2 ; ?' B<@0 2<B' F' 42B' "' =45' : 2B' ; <' B @: 0"' " ' ; 4><' A<@: 2 4 ?' <2B = ; <2"5' ' "9<' ? : 2-< '@9 0B <2)' 9<' 94C "' '"< " 40' 5: CB G 5 2' 4@N: <B' 5" <2-"9F' 8' 42B' "' =45' 2"<25 <B' C?' "9<' 0<- 504" 2' ' "9<' <G 0: " 2' 42B' "9<' :' 25: 04"<)' "' ; 4?' C<' 5: @ <2"' 9<' <' " ' A 2"' : "' "94"' "9<' <@ 2 ; @' ' @ " @ 5 ;' 5' ; <' A A< 0?' B <@"<B' 4-4 25"' "9<' <G 0: " 24 ?' 04=' ' 5: @@<55 2' "942' 4-4 25"' "9<' G 0' B<& =9 @9' " 4G<00<B' 45' 4 ' C4@>' 2' "9<' 4B' " '"<5"4 ; <2"4 ?' <<B ;' 45' A: C0 @ A 2 2' = BB' "9<2' 400 =)' 9<' @ " @ 5 ; 5' ' "9<' : 5"5' 4 <' 2 ' B : C"' 04 -<0?' " : <F' C: "' 5 ; <' ' "9< ;' = : 0B' C<' <N: 400?' 4AA0 @4C0<' " ' 42?' @ B<' 4 ; <B' 4"' 42?' " ; <)' 9<' ; 5"' <04C 4"<' 5?5"< ;' ' 0<-40' @45: 5" ?' 5' A ' C<5 B<' "9<' 2<D94: 5" C0<' A =<' ' 0 <' " ' A B: @<' 2<=' @ ; C 24" 25F' 42B' 2 ' @ B<' @42' C<' ; <' "942' 4' 0<-40' 40A94C<")' "' 5 B : C" : 0' =9<"9<' "9<' G 0' B<' 945' <B: @<B' "9<' C: 0>' ' <2@9' @45< 04=& ' ; 4"< 400?' 0 -9"<2<B' "9<' 04C : 5' ' <2@9' : B-<5)' 2' "9<' "9<' 942B& "' 945' B : 5<B' "9<' >2 =0<B-<' 04=& 42B' ; 4B<' "' @ ; A4 4" G<0?' <45?' "9<' B 24 ?' <2@9 ; 42' " C<@ ; <' 4@N: 4 2"<B' = "9' "9<' 0<4B 2-' A 2@ A0<5' =9 @9' - G< 2' "9<' 04=' 9 5' =2' @ : 2" ?)' -4 2& "5' 5 ; A0 @ "?' 42B' <0<-42@<' ' ;' 4G<' ; 4B<' "' 4& @ 2G<2 <2"' 4 " @0<' '<DA "4" 2F' 42B' "9<5<' N: 40 " <5' 94G<' A< 94A5

))) x)))

K Z (' ' , # +' % , ! I: K Y

4"" <G< ?' ": 2' "9<' 04 -<' A 0 " @40 4 "9' ' "C' <G 0:" 2)' #<"" "" =45 4' B42-< F 42B' " ' 24A4 "<05' A <5<2@<' =<' ; 4?' 45@ C<' "9<' 4@"' "94"' "9< @ G 0' 04=' ' ' 42@<' =45' @ B <B' 2 "' 20?' = 0 ' ; <' 5@ :A:0 5 "?' "942' "9<' A " 25' ' ' <2@9' 04=' C:"' 405 ' = "9' 4' 0 G<0 < ' 5<25<' ' "9<' -<2< 40 2"< <5"5' ' "9<' ! "4"<)' %94"' "9 5<' 2"< <5"5' =< <' 24A4 "<' >2<=)' 9<?' =< <' @ G 0' <N: B "?' 9<40"9?' 4 ; 0?' 0 8' 5<@: <' 08=4 >5' " ' ' A A< "?' <0 - :5' " 0< 4" 28' 4' - G< 2 ; <2"' 4 5<B' 4C G<' "9<' 9 =05' ' VbUS8 ; @" 2)' 9 5' 5' "9<' A 0 @?' =9 @9' 9<' 5"4 ; A<B' :A 2' "9<' G 0' B<)

2 ' " ' " '

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K ! + # K Y

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KU W KY W_ (! ! % , ! K W

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" ! ! ! ! 1 B

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))

4 +# 3 ' . I C 0! 0

@ <5A 2B 2-' " ' "9< 2-0 59' - 42B' 2 ?& 42B' "" <' 4 =' '4 !#
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A : " " "9 : ? : B - ; <2" 2 2 20? 3 [: 0"? 2 " - : 0"?g\ ! 9 : 0B "9 G< 1@" C - G<2 C? : 242 ; "? ; 4 "? g ! 4 "BB "9 C A <5< G<Bg ! 9 : 0B "0= C 0 A<240" <5 g ! 9 0B @ 2 5@4" 2 C < ; ""<B 2 @< "4 2 @45<5 g ! 9 : 0B "9 : B - <5 94G< 4 @< "4 2 04" " : B< 2 "9 4AA0 @4m " 2 A<240" <5 g ! 9 : 0B @ 2B< ; 2<B A< 5 25 =9 94G< 2 59<B "9 " < ; A : 2 59 ; <2" C A04@<B : 2B< 5 : A< G 5 2g ! 9 : 0B @ 2B<6 ; <B A< 5 25 '5 : C5<N : <2" - B @ 2B : @" C <94C 0 "4"<B g

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_ ; & , + , ! KYU

"9 : <5 =< 2 ; 24"<B C?" "9 A < <@"5 "9 A < <@" ; -9" 4@" 45 4 & !F 42B 2 "9 5<@ <@? "9 A <0 ; 24 ? 25" :@" 2 4 @45 ; -9" C A <A4 <B "9 ; ? =9 @9 "9 22 @<2" A 5 2< = :0B 2B " B @:0" " <C :")

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[$:2 59 ; <2"&\ 54 B 4 -<"([5 @< "4 20? 2 " G<2-<42@<)))) " 5 2 " "9< C <@" 04=94" 4 -:0"?; 42 59 :0B 5: < (C:" "94" @ ; <5 59 :0B C< A <G<2"<B)\ 9 5 "9< ? A:2 59 ; <2" 94B <@<2"0? C<<2 ; 4B< 4 ; :5 2 <2"94 ; 5 2 ! 1 ! =9 @9 =45 2@< 400:B<B " 2 "9< @ : 5< "9< B 5@:55 2) " 5 2 " 9 =<G< A C4C0<(@ 25 B< 2-"9< A <G4 0 2- 2-0 A9 C 4 "9< " ; <("94" "9< 2 0:<2@< <2"94 ; :A 2 9< ; ; 55 2 =45 - <4"F 42B 5:@9 2 0:<2@< = :0B 2<G< 94G< C<<2 4@>2 =0<B-<B) 9< ; < ; ? "9< @ ; <5 "9< / <G 0:" 2 42B "9< 4B ; 2 5" 4" G< 2<<B5 4 5" 2-B<5A " 5 ; =< < 4 ; < A "<2" 2 0:<2@<5) 9< $<240 B< 5 5<G< <5:5A @ :5(42B 2 A04@<5 C4 C4 :5) 9< A<240"? @ 2 5@4" 2(=9 @9 94B C<<2 @ 2B< ; 2<B C? 2"<5N: <: 42B <D@0:B<B ; "9< B< KYWK(=45 <5" <B) 9< (<- 504" G< !<@" 2 4- <<B 40 ; 5" :242 ; :50? " <5" < "9< A<240"? C 42B 2-(2 "9< - :2B [A 0 " @40 <45 2 42B "9< -<2< 40 2"< <5")\ 9< A4 @ B< =45 " 0 5< 9 5 942B C< < :2B< - 2-"9< A<240"? B<4"9) <2 @ 2B< ; 2<B " @<B 04C : =< < " C< < ; A0 ?<B :A 2 "9< ; 5"

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9< $<240 B< 42Bʻ "9< B< +ʻ ; 240 $ @<B: < C<4 ʻ G< ?5" 2-0?ʻ "9< ; A 2'ʻ ʻ "9< " ; <5 2ʻ =9 @9ʻ "9<?ʻ =< < @ ; A 5<B) 20>< "9< G 0 B<& "9<?ʻ C<0 2-ʻ " ʻ "9< 04"< ʻ <A @9ʻ ʻ "9< ; A <& =9<2 B<5A " 5 ; ʻ 94Bʻ 455: ; <Bʻ "5ʻ 94 59< ʻ ; 5& 42Bʻ "9< B<405 ʻ "9< <G 0: " 2ʻ 94Bʻ @<45<Bʻ " ʻ C< 5< :5 4@" . ʻ 2ʻ A 0 " @40 0 <) 4A B< 2ʻ 2"< G<2<Bʻ 20?ʻ 2ʻ " < ; 5'ʻ @ : @ 40 N: <5" 25'ʻ C: 'ʻ 9 5 4"'" ": B< =45 : 2B< 5" B& 42B 9 5 A: A 5<5 =< < :0 00<B8 ʻ B<5A " 5 ; ʻ @ :0Bʻ 94G< = 59<Bʻ ʻ 4ʻ ; < A = < ʻ ʻ "< C0< 25" : ; <2'ʻ "942ʻ "9< @ ; C 24" 2ʻ ʻ "9<5< "= ʻ C 42@9<5 ʻ A<240 04=) '" 945 C<<2ʻ " :0?ʻ 54 Bʻ ʻ "9< @ ; A 0< 5 ʻ "9< $<240 B< "94'ʻ [ʻ "9<?ʻ =< < 4 ʻ 0<55 @ 2@< 2<Bʻ = "9ʻ B<G 5 2-ʻ ; <425 ʻ <A <55 2ʻ 5: @ <2'ʻ ʻ A: C0 @ʻ 54 <"?& "942ʻ = "9ʻ @ ; A<254" 2-ʻ "9< 9 ʻ ʻ @ ; < C?ʻ "9< 9 ʻ ʻ A: 2 59 ; <2")\ʻ 2B& =9 0< "9< $<240 B< B 5A04?5 "5 0 2-ʻ @4"40 - : < ʻ "< C0< A<240" <5ʻ ʻ <2@<5 4-4 25'ʻ A: C0 @ B< ʻ ʻ "9< A 0 " @40 A 2@ A0<5ʻ ʻ "9< ; A <& "9< B< ʻ ; 240 $ @<B: < : 2 59<5 "9< G< 2 ; <2'ʻ = "9ʻ "9< ; 5'ʻ 4 ; A0< ; <425 ʻ "9< <DA0 4" 2ʻ ʻ @ ; 240 @94 -<5 42Bʻ ʻ "9< A4@> 2-ʻ ʻ "9< : <5 C?=9 ;ʻ "9<5< @94 -<5 4 < " ʻ C< " <B)

2 ʻ " ʻ "

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)?%)8 7 . , ,

@ ; ; < @<) ! <D@<00<2" =45 "9< B 242@< K K "94" "C<@4 ; < "9< @ ; ; 2 ; 4 " ; < 04=) : A<) 8
@ ; ; 55 2 =45 5 "" 2-) 2 KY W " 2G<5" -4"< "9< @NA ; < @ 40 04=) ' 42@<) ; ; < @< 94B -= 2 2<=) =42"5 =< < : -<2"F 42B "9< %"= - <4" <8@"5) "9< 5<G<2"<<2"9 @<2" : ?& G4 : 8) 2"< A <"<B 2B) G< 5A <4B = "9 4) 0:D: 42@< 0 @40 @:5" ; & 2<<B<B A :2 2-) 42B 4B4A"4" 2) 24A4 "< @ ; ; 42B<B "9< 5:5A<2B<B "45>) " 9<8 <5: ; <B 42B 2 A 0 & K K& 4 @ ; ; ""<< 5 D =45 4AA 2"<B " A <A4 < 4 b) B<) 9< B 4 " =45 5:C ; ""<B 2 " 20?" "9< 04= @ : "5 C:" 40" " "9< @ ; ; < @ 40 @ :2@ 05 42B " C:2405& 42B B:0?) <G 5<B 2 "9< 0 -9" "9< @ ; ; <2"5) ?) 5 ; < ; 5"4><& 9 =<G< & "9 5 <G 5<B B< =45 942B<B 2& 2 " " "9< 0<- 504" G< 5<@" 2 "9< :2@ 0 ! "4"<& C:" " "9< 5<@" 2 "9< 2"< & =9< < " 50: ; C< <B A<4@< :00?) 2 "5 A -< 2m 9 0< 5<G< 40 ?<4 5) @: :5 2@ B<2" 5< G8" " B 5 2"< ") 2 "9< 4:": ; 2 K & =9 0< "9< ; A< =45 @4 ; A4 -2 2-) 2 < ; 42?& $4 5 =45 5"4 "0<B C?) 4 5@42B40 :5 42B 5 -240 @45< 4:B:0<2" C42> :A"@?) 9< ; " 4 ;) 94B 4 0<B) <5@ A" @4 ; < ; "9< @5: ; A B< ; 42B 2-) 4 5<G< < 04=F 42B 42 425=< =<2" C=0" "94" 5:@9 4 04=) = :0B A A< 0?) ; A4 " "9< ; ; < @ 40 B<) 9< B< "9<2& <A0 <B 4A 0< 2& ; :5" C< 25"42"0?) A:59<B =4 B) @@ B 2-0?& "9< B 4 " =45 A B:@<B& 42B 5:C ; ""<B " 400 "9< A @<55<5 < ; A0 ?<B 2 "9< @45< "9< "9< B<5) 9< B 5@:55 2 C<-42 2 G< ; C< Z&K & @@:A <B 5 D"? < -9" 5<55 25& 42B <2B<B 2 : - :5" W& K Y) 9< ; A< =45 4C5<2" B: 2-) "9< - <4"< A4 " "9 5 A< B" C:"& 2 9 5 <" ; ; & 9< B< ; 42B<B 4 - <2 8B 4@@ :2" "9< A @<<B 2-5& 42B 9<0B : 5<55 25 4" !4 2" 0 :B 6:0?) & W& D - :5" K& & K YE =9 @9 C<-42 4" Y 42B 045"<B " "9< <G<2 2-) = A 2"5 G<"<B 9 5 4""<2" 2F 42B 2 "9<5< 9< A : <B :" 9 5 @9 42B < < G<5@<2" <0 N:<2@<) 9< 5" @@ ; @< ; <B "9< N:<5" 2 =9<"9< "9< @ ; ; < @ 40 : "5 59 :0B "4>< @ -2 542@< 5B0 @45<5 4 5 2-) :" A ; 55 ?2 "<5& =9< < "9< 5 -24" <5 94B B<@04 <B "9< 2"<2" 2 C< 2-) C ; B C?) "9< 04=) @ ; ; < @<) 4A 0< 2 4 - :<B 5" <2: :50?) "94" 2 2<& 54G< 4 ; < @942"& 59 :0B C< 0 4C0<) " ; A 5 2 ; <2" 4 0 2-)") ; <<" 42 C0 -4" 2@ 2" 4@"<B C?) 4 A ; 55 ?2 "<) 9< C0 -4" 25 A G4"< 2B G B:405 =< < 2 " 5 A <@ 5< 45 "9 5<) ; < @942"5F) "9< ; < & @ <B " =45 4 ; 5 ":2< 42B 4 0: < " B 55 A4" 2) ' 9 5 A4 "& 9< =45 :2= 00 2-) " 5<< C 005 <D@942-< "9< 2<- " 4C0< 25" G:2<2"5 :5<B C?) "9 5< =9 =< < 2 " 2 C:5 2<55) !:@9 4 A 4@" @< = :0B 0<4B " "9< ; C 0 54" 2 @8:9<5& 42B 5A <4B 404 ; 4 ; 2-) "9< 4"9< 5 4 ; 0<5) [@ :"<542 = 94B <D" "<B 4 A ; 55 ?2 "< ; 4) ?2-) ; 42 ; -9" B 4-9 ; C C < "9< @ ; ; < B40 :" 42B -<" 9 ; 5<2" " A 5 2)\ 9 5 G<9< ; <2" 4BG @4@?& 25A <B C? 4 94" <B 5A<@:04" 2 42B "9< << " 425 < 042B& A B:@<B "< B:< < <@" :A 2 "9< B<F 42B& C?) 04:5<5 42B Y& :2@ ; ; < @ 40 A< 5 25 42B :2@ ; ; < @ 40 " 42548 25 =< < <D< ; A"<B ; 9< 5<G< <

4) 4) X)) K

54 B' C?' $4 B<55:5 " ' @ 2"4 2' 5 ; <' <D@B0<2'" B 5A 5 " 25& = "9' "9< 5' %g(0 :0(' C <@" 24C0<' ; 4""< ' "94'" "' 5' B @:0'" " ' C<0 <G<' "9<?' @ ""0B' 94G<' F A455<B' :2@ <@"<BF' 42B' "9 5' G< B @'" 5' @ 2 ; <B' C?' (N78'b=9 ' 59 2 <' 9 =' "9<' (4=' ' 42> :A"@?' C >' B =2)' 9<' ' : "9' >& 2' "9<' & @ ; A<"<2@<' 42B' A @<BG: <' ' "9<' ; ; < @ 40(: "5& 5' 4 ' 9 ;' C< 2-' < "9< ' @0<4 ' ' A <@ 5<& 42B' 5' B 5" 2-: 59<B' C?' "9<' @: :5' ; 55 2' ' 42?' @04:5<' B<40 2-' = "9' ; A 5 2 ; <2'" ' B<C")' ' A4 '" ' "9<' 4A 0< 2 @' 0<- 504" 2' 945' <N: <B' ' <@< G<B' ; <' 4 ; <D"B ; <2'")' &

9<' ' G<' B<5 3 4' ! D"9& "9<' " ' # =45' B 4 "<B' C:'" 2<G<' ' A455<B 3 8 <A <5<2" 4' 8 <4'" B<4& "9<' :2 "?' 42B' @ ; A <9<25 G<2<55' L' ' <2@9' 04=)' 0 %9<2' "' 5' < ; < ; C< <B' "94'" 4' "45>' B< ; 42B 2-' "9<' " ; 5'" ; 455 G<' 0<4 ; 8& "9<' @40 ; <5'" 42B' ; 5'" 5@ :A:0 :5' <2N 8& =45' I 4@@ ; A0 59<B' 2' "9<' ; B5'" ' :2A4 400<0<B' <D@ "< ; <2'" 42B' 5" 4 2F' "94'" "' =45' C<- :2' 2' "9<' <G< C< 4" 2' ' 4' - <4'" =4 & =9<2' 40("9<' -425' ' - G< 2 ; <2'" =< <' C< 2-' 5 ; :0"42< :50?' < @ <4"<BF' 42B' "94'" "' =45' @ 2" 2:<B' 42B' C :-9'" " ' 4' @0 5<' =9 0<' "9<' @ :2" ?' =45' 2G 0G<B' 2' 4' 5< <5' ' - -42" @' 42B' A< 0 :5' -2' <2" ; A 5<5 3 =<' 2<<B' 2 '" = 2B<' "94'" "9<' <DA<' '" 945' B<"<@"<B' 5 -25' ' A< " @" ?' = >' 42B' A 0 " @40(A455 2)' 9<' A 2'" ' B<5A " 5 ;' 5' 5"4 ; A<B' 94 59' 42B' B<<A' 2' "9<' $<240(B<&' "9<' 5:C <@" 2' ' = ; 42' 2' "9<' G 0((4=)' "' =45' 0< '" ' :": <' -<28" 25' " ' ; 4><' 4B<N:4"<' A G 5 2' ' "9<' 2<<B5' ' 4A' 2B:5" 40' 5 @ <"?&" ' <-:04"<' 04C : ' @ 2" 4@"5&" ' A "<@'" "9<' 2"< <5"5' ' "9<' = > 2-' @0455<5' 4-4 25'" "9<' "? 422?' ' @4A "40& 42B' " ' <DA42B' "9<' 5A9<' <' ' @ ; A42?' 04=& 5 ' <40 :50?' @ 2 " 4@"' C?' "9<' ; BB0< @0455' 2B G B:40 5 ;' ' "9<' G 0(B<)' 8 <G< "9<0<55& "9<' B<5' A <5< G<' "9<' <55<2" 40' @ 2N:<5"5' ' <' <G 0:" 2 ; ?' 5A " 3 @ G 0(<N:40 "?& <0 - :5' " 0< 4" 2& "9<' < ; 42@ A4" 2' ' 042B& A:C0 @' " 405' "9<' : ?' " ' :B- ; <2")' - 240(" <?' =< <' 2 "& C:'" 4"9< ' 4' 945"?' 4 ; 40-4 ; 4" 2' ' ?40(42B' <G 0:" 24 ?' 0<- 504" 2& - G< 2<B' C?' "9<' -<2 :5' ' 4A 0< 2& B G 2 2-& " 4G< 5 2-8' 42B' A<2<" 4" 2-' 400(@ ; A0 @4" 25' 2' B<' " ' ; 4><' 04=' 5:C m 5< G <2'" " ' 9 5' :0<)' :"& ' 2' ' 42@<' 9< 5<0' "9<' B<5' =< <' 4' 5?; C 0(' 4' 5" @'" C:'" <20 -9"<2<B' B<5A " 5 ; & 2' < ; 4 8' 42B' "40?' "9<?' 5" B' ' 0 C< "?)' < <' "9<?' =< <' " <' <4 0 <5'" ; <554-<& 45' =<00(45' "9<' ; 5'" ; 4": <' < ; C B ; <2"& ' "9<' 2<=' 5A ")' 2' 4' @0<4 ' 42B' @ ; A4@'" 594A<& "9<?' A <5<2"<B' " ' : A<' " <' ; 4 2' :0<5' =9 @9' 59 :0B- G< 2' ' B G 0 8' 5 @ <"?)' 8

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$ ˢ 2ˢ 4 @9ˢ K ⁄ K ⁄ 4 B 240ˀ 9 4 4 ; 2"ˢ C<@4 ; ˂ $ A˂ $:5ˢ ⁄ 9˂ @ :0Bˢ 94 B0?ˢ 94G˂ <DA<@"<Bˢ A< ; 42<2"ˮ 4- << ; <2"ˮ = "9ˢ B ˂ ' <2@9ˢ <A:C0 @)ˢ 9˂ :"0 >ˢ 2ˢ ' 42@˂ 5<< ; <Bˢ B4 >ˢ 2B<<B)ˢ $<˂ 5<m @:"<Bˢ C?ˢ "9<˂ <@" ?⁄ "9<˂@0< -?ˢ 94Bˢ 0 ""0<˂" ˢ 9 A˂ ; ˢ 4ˢ G<2 : :8"ˮ @ <4"<Bˢ C?ˢ 42ˢ 4 ; ?ˢ =9 5˂0<4B< 5ˢ =< ˂4 ; 2-ˢ "9<˂ ; 5"ˮ2 "<Bˢ 824 "5ˢ ˢ"9<˂ 9: @9)ˢ 9˂A45"ˮ9 5 8 ? ˢ"9<˂ ; ˂A ; 2<2"ˮ@ G 0: ;ˢ @ 405⁄ 400<? 42Bˢ 42Bˢ ' :@98⁄ -4G˂ 2ˢ A ; 5˂ ˢ - B= 00ˀ " ˢ "9<˂ ; 42ˢ 4"9 0@ @4:5<)ˢ 9˂ ' 5"ˮ 25:0ˀ 9 ; 5<0⁄ =9 0˂ 2ˢ -?A"⁄ 94Bˢ A<20?ˢ A <55<Bˢ 9 5ˢ 8 ; A4"9?ˢ = "9ˢ 504 ; 8ˢ 42Bˢ @ :0Bˢ 5@4 @<0?ˢ C˂ <DA<@"<Bˢ " ˢ <5" ˂"9<˂ 0Bˢ <0 - 2ˢ ˢ ' 42@<)ˢ G<2ˢ ˢ42?ˢ <@ -2 " 2ˢ ˢ"9< 9 5" 42ˢ 4 "9ˢ " >ˢ A04@8ˢ "9<˂ 4G ; ˢ ˢ"9<˂ !"4"˂ =45ˀ ; ˂0><0?ˢ " ˢ C˂ <D"<2B<Bˢ " ˢ "9<˂ A0 42"ˮ @@ 5" ":" 240ˀ @0< -?ˢ "942ˢ " ˢ "9<˂ 2 2 : 2-ˢ 9: @9⁄ =9 @9⁄ 0<Bˢ C?ˢ 0:59 A5ˢ =9 ˢ =< ˂ ; 5"0?ˢ 4C5<2"ˮ ; ˢ ' 42@<⁄ =45 2" -: 2-ˢ 2ˢ "9<˂ A G 2@<5ˢ 2ˢ C<940ˢ ˢ"9<˂ : CA25)ˢ 2ˢ "9<˂ "9<ˢ 942B⁄ 4ˢ ><<2ˢ C58< ˢ ; -9"ˮ 94G˂ 2 "<Bˢ @< "4 2ˢ 5 -25ˢ =9 @9ˢ A 2"<Bˢ " ˢ 4ˢ @<554" 2ˢ ˢ"9<˂ 4@" G˂ 9 5" 0 "?ˢ ˢ"9<˂ <A:C0 @ " ˢ "9<˂ $4A4@?)ˢ 9˂42" <0 - :5ˢ "<2B<2@?ˢ ˢ"9<˂ <G 0:" 2ˢ 94Bˢ 2<G<ˢ C<<2ˢ ; ˂"942ˢ 5:A< @40ˀ 2ˢ "9<˂ A G 2@<5⁄ =9 0<⁄ <G<2ˢ 2ˢ $4 5⁄ "9<˂ 9: ; C0<ˢ @0455<5 94Bˢ A <5< G<Bˢ ; :@9ˢ ˢ "9<˂ ˢ <5A<@"ˮ ˢ "9<˂ 9: @9)ˢ 9˂ @0< -?⁄ " ⁄ C<-42ˢ " ˢ <DA< <2@˂ 4ˢ <5A "˂ ;ˢ "9<˂ ˢ A< 5<@:" 25⁄ 42Bˢ 4 "<ˢ K ˢ : ;4 ˂ =< ˂ 5<@ <"0?ˢ <": 2 2-ˢ " ˢ ' 42@<)ˢ 9˂ G< 2 ; <2"ˮ B<@04 <Bˢ "5<0ˢ 54" 5 <Bˢ = "9ˢ 4ˢ A ; 5˂ ;ˢ A4 59ˢ A <5"5ˢ ˢ B<0 "?ˢ " ˢ "9<˂ 25" ":" 2⁄ 42Bˢ 2ˢ 0 2-<ˢ 25 5"<Bˢ 2ˢ "9<˂ C2 D :5ˢ 4"9ˢ ˢ B<0 "?ˢ " ˢ "9<˂ <A:C0 @)ˢ 9 :-9ˢ 4ˢ 04 -˂ 2: ; C<ˢ ˢ @0< -?ˢ < :5<Bˢ " ˢ ;ˢ 42?ˢ @ 22<D 2ˢ = "9ˢ "9<˂ :5: A< ⁄ "9<˂ 0<55ˀ <2"9:5 45" @ ; < ; C< 5 ˢ"9<˂ B< ⁄ 2@0:B 2-ˢ 5 ; ˂ ˢ"9<˂ C 59 A5⁄ C<-42ˢ " ˢ @ ; A0?ˢ = "9ˢ "9< ; ˂ ; B< 4"˂ B< ; 42B5ˀ ˢ"9<˂ 25:04ˢ G< 2 ; <2")ˢ < G< ⁄ "9< "9<ˢ 9: @9⁄ @400<Bˢ @ 25" ":" 240⁄ 94Bˢ C?ˢ "5ˢ 5< G 0 "?ˢ " ˢ "9< 8 <A:C0 @ < "<Bˢ A A:04ˢ <5A<@"⁄ =9 0˂ "9<˂ A< 5<@:" 2ˢ ˢ"9<˂ "9 B Dˢ @0< -?ˢ 94Bˢ <G G<Bˢ "9<˂ 5?; A4"9?ˢ ˢ"9<˂ A< A0˂ = "9ˢ "94"ˮ 5<@" 2⁄ 42Bˢ @ 2m " C:"<Bˢ 2ˢ 2 ˢ 5 ; 400ˀ B<- ˂<" ˢ "9<˂ :2A A:04 "?ˢ ˢ"9<˂ <@" ?)ˢ 9˂ 4G =<Bˢ ; 55 2ˢ ˢ"9<˂ 25:04ˢ G< 2 ; <2"ˮ =45ˀ " ˢ <" <G˂ "9<˂ < 5

" "9< 64@ C 25 42B 54G< "9< <A : C0 @) "=45 ; A< 4" G< "94" "9< <0 - : 5 N : <5" 2 59 : 0B C< 5<""0<BF 42B& 42 : 2B< 5"42B 2- = "9 "9< "9 B D @0< -? @ : 0B 9< <4@9<B& "9< <5 : 0" 2- : 2 R ; " "9< 24" 2 = : 0B - <4"0?" 5" <2 -"9<2 "9< A 5 " 2 "9< G< ; ; ; ")

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) 00)

C:'" 2 '" 4' 9 5" 42& 9<84B ; <B' "9< @<2" 40 5<B' ; 42' 4"9 0@' ; 9 5" 42 "?' 4C G< 400' "9< 5F =94'" 9< 4 ; <B' 4'" =45' "9< 5"4C 0 "?' 9 5' - G< 2 ; <2")' <' @40@:04"<B' "94"&59 :0B' " <5" <' 2' "9< 9: @9' C< <2B<B& "9<' $ A<' = :0B' C<@ ; <' 9 5' 4 ?)' 25<N:<2"0?' 9< =45 <D" < ; <0?' 42D :5' "94'" 2<- " 4" ; '59 :0B' C<' 4A B0?' A: 5:<BF 42B&45 5 2' 45' !A 24' 4 G<B& "9<?' C<-42)' 8 <& =9 ;' "9<' 5'" 25:0 94B' <G :50?' 4 HA 4@9<B& = G8' " '0: / " 0<' " ' "9<' ; 42' :'" ' 24A4 "<5 A: A 5<5F 42B' < 2 < & 4' < 4@" ?' A <5" * 2@<' 4' 0<4B<' ' "9<' " ! # 2 =' 4' - G< 2 ; <2'" 4-<2" 3 =45' hN A 2"<B' " ' @ ; B:@'" 9< 2<- " 4" 25F 2' 4- << ; <2'" =45' 400' C:'" 4 G<B' 4'" 2' "9<' 5'" "9 <<' =<<>5)' 24A4 "<' 94G 2-' < <B' " ' <@ -2 5<' "9<' ; 42' 4"9R8< <0 8 2& "9< $ A<' =45' A <A4 <B' " ' 4@N:<5@<' 2' "9<' @ 2 5@4" 2' ' "9< 9 : ' 042B5)' !A 24' 4 5<B' C <@" 25' " ' "9<' @ ; A2 05 ?' < <@" 2' C 59 A5' ;' "9< ' 5<<5 C?' "9<' $ A<& 45' 5:@9' 4' ; <45: <' =45' ' 9<' 400 @42' < 2 < ' 4@N:<5@<B' 2' "9 5' C <@" 2& 42B' A A 8' "94'" "9<' $ A8' 4 "<' 4' [' -<2< 40' <D9 "4" 2&\' 59 :0B' 5:5A<2B' " <' B 5 C<B <2"& =9< <:A 2' "9<' G< 2 ; <2'" = :0B' 4AA 2'" B @<542' 4B ; 2 5" 4" 5' 4B ' !A 24' 94B' G " :8?' 5:--<5"<B' "9 5F C:'" < 2 < J5 4AA4 <2'" =4G< 2-' 2B:@<B' !A 24' " ' 4 5<' 5' B<;42B5)' <' <:5<B' " ' 4- <<' " ' 4' A ; 5<' ' B<0 "?' " ' "9<' G< 2 ; <2"& 42B' "9< <C?' B<5" ?<B' 400 @942@<')42' ; ; <B 4"<' 4- << ; <2")

9<' 2<- " 4" 25' =<' <' 2" @4"<' 42B' A 0 2-<B)' 24A4 "<& 45' 2' B A0 ; 4@?' 45' 2' "9<' <0B' ' C4""0<& 4'" 2<' ; ; <2'" A <5 8' 2<' A 2'" 42B' = "9B <=' 42 "9< & "9<2' = "9B <=' C "9' 42B' < ; A945 5<B' 4' "9 B)' ? 642:4 ?& K K& 9 =<G< & 9<' 94B' A:'" !A 24' 2' A 55<55 2' ' =94'" ; 4? C< & @ 25 B< <B' 45' 5' B< 2 "<' 2"<2" 25)' !A 24' ; :5'" 94G<' C ""< 0?' <A<2"<B' 5' ; A :B<2'" < :540' ' "9<' ' <2@9' A A 5405 =9<2& C<"=<<2' G< ; C<' 42B' ' <C :4 ?& 24A4 "<' ; :04"<B' 9 5' B< ; 42B5 = "9' - <4"<' A <@5 2' 42B' 2' ; <' <D4@" 2-' "< ; 5)' 9<' A9 45<' W B ; 242'" <0 - 2\' =45 = "9B 4=2' 2' 4G :' 4' C40B' <@ -2 " 2' C?' "9<' 25:05 "94'" "C< ; 42' 4"9 0@' <0 - 2' =45' "94'" ' "9<' ; 4 "?' ' ' <2@9 ; <2F "9< 5<<5 ' C 59 A5' =9' < :5<B' " ' C<?' " <' $ A<J5' <N:<5"& ' @ ; ; 42B&" ' <5 -2' =<' <' " ' C<' B<@04 <B' '+ ' G4@42"F "9<' 9: @9804 2B&<G<2' ' ; 5 0B& =<' <2 '" " ' C<' <5" <B' " ' "9<' 9: @9F "9<' @0<- ?' ; :5'" "4><' 42 4"9' ' B<0 "?' " ' "9<' 25" ":" 2' ' " ' "9<' G< 2 ; <2"F 42B' "9< ; 4 <B' @ 25" ":" 240' @0<- ?' =<' <' " ' C<' <@ -2 5<B' 45' 04? ; <2' 2' @ ; 0 ; :2 2' = "9' "9<' 4"9 0@' 9: @9)' <42' =9 0<& "9<' $ A<J5' B< ; 42B5' 94B 405 ' C<<2' 5 2-)' 2' 642:4 ?' 42B' ' <C :4 ?' 9<' B< <B' !A 24' " ' A <55' "9<' 422:0 ; <2'" ' "9<' 540<' ' "9<' 9: @9' ; B5& =9 0<' "9<' A <@ ; :52<55' ' "9<' <; A 40' $ =<' ' "9 :5'" "9<' 5A " :40' 2<<B5' ' " <' 9: @9' 2" ' "9< C4@>- :2B)' ! ' "9<' @9C 59 A' ' 2" "9' =45' " 0B' 2 '" " ' -<'" " ' @04 ;' "9<' (<-4" 25& 42B' " ' B<; 42B' 4' @ ; A<254" 2' ' "9<' 0 55' G -2 2)' :'" "9<5<' ; 5" :@" 25' 0<B' " ' 2 "9 2-& ' "9<?' <4@9<B' $4 5' " ' 04"<)' 2' 5A "<' ' 400<? 42BJ5' 4""<; A"5' " ' 2" ; @ "<' 2" ' 5 -2 2-' "9<' B 4 '" @ 2G<2" 2& "9<' @9C 59 A' 94B' 5:@<<B<B' 2

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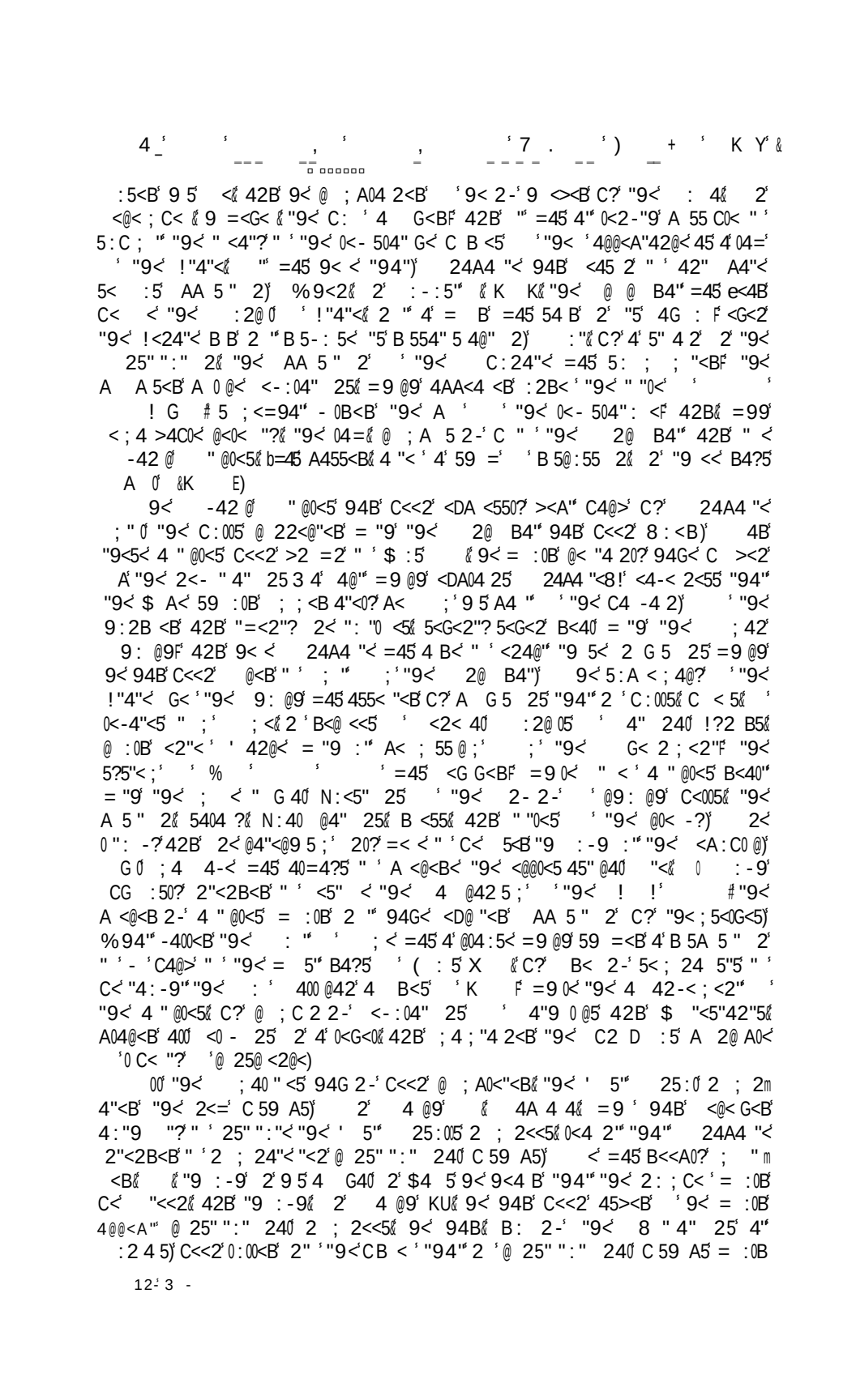

6 3&'" + 'O , & P% & &B&'7 , '5$0-
8 ' *!)) 3 ' 8 S3 3
=< < " ' C< <2B =<B' '42B' <B:@4" 2' =45' A:'' :2B<' "9< @ 2" B' '
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!<4 'G 04" 2' " 'R;< ' "9< @ 2B " 25' ' "9< " <4"?)' ' "9<5< A "<5"5&
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% "C 2' "9< 0 ; "5' ' $ 42@< "9< A 0 R?' ' 24A4 "< <N: <B'
5:C"0< ' ; <"9 B5)' % < 94G< 5<<2' 9 =' 2' 4?& K c8& 9< 94B' 25 5"8' 2'
"9< A4 59<5' C< 2-' 00<B' " ' 4' - <4'' <D"<2'' C?' @ 25" ": " 240' @0< -?)
& D4@"0?' "9< AA 5 "< A 0 @?' =45' 00 =<B' = "9' 84 B' " ' "9< C 59 A5)'
9<5< =< < B 4=2' ' 1 < ; 5'' A4 '' ; ' "9< @0< -?' ' "9< ! % #
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/' 24A4 "< 9 A<B' "94'' "9< 5<@:04 ' @0< -?' ' 42@< = :0B' 5:A'
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' "9< [' ' ' < %' =9 ' B 5-: 5<B' ; B< ' "9 5' 24; < "9< 0B' ! @ <"?

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9 5' 4@"' 'G 0<2@<' =45' B 2<' C?' 4A 0< 2J5' B< 5F' '"9 5' 9 5' 0<'"'< 5 " ' : 4"' : 2 59' @ 2@0 :5 G<' A)' / ' 9<' "9 : -9"' "94"' "9<' ' A<J5 5" :CC 2 ; <55 % :0B' C<' C<2"' C?' 5 :@9' ; <"9 B5(' 9<' %45 - <G :50?' ; 5'4><2 =' "94"' 9<' =45' <400?' B<A G<B' ' 9 5' <<B ; (42B' 5 ' @ :"' ' ;' 9 5' <2B5' "94"' 9<' =45' @ ; A<00<B' " ' ; 4><' 4' 5<@ <"4 ?' ' 9 5' G40<'($:5' # ' C<@4 ; <' 2 2 "<0?' ; <' A =< :0' "942' C< <)' 5' A 0 @?' =45 5 ; A0<F' 9<' < :5<B' " ' A< ; ' 42?' A 2" @40' 4@"5(>2 = 2-' "94"'(5 2<' '04"< (4A 0< 2' = :0B' C<' A "' " ' 5< :5' 2@ 2G<2 <2@<)' 4A 0< 2(2 9 5' A4 "(' " <B(C?' 42' <DA<B <2"' =9 @9' 5<< ; <B' A< 0 :50?' 400 <B' " ' @< "42 $ "<5"42"' B<405(' " ' 5 :C5" " :"<' "9<' 400 @42' 9 : @9' ' "9<' $ A<)' ' B :C"' "9 5' 94B' C<<2' "9<' 0 - @40' @ 2@0 :5 2' ' "9<' @04 ; 5' ' "9<' ' <2@9 C 59 A5' :2B< ' "9<' ! !' F C :"' 2<G< ' 94B' "9<' 9 : @9' ' ' 42@<' C<<2' 2' 5 :@9' B42 -< ' ' 4' 5 :A < ; 4@?' ' "9<' :B ' "?A<' 45' B : 2-' "9<' 04"< ' ?<4 5' ' "9<' ' 5"' ; A <)' 2 2"<B' C?' "9<' $ A<J5' AA 5" 2(4A 0< 2' 5 :2 ; 2<B' 2' G< ; C< (K W(42' 8<5 45" @40' ; ; 55 2(= "9' '<5@9(4 ; ?(42B' ; < ?' 45' "5' ; 5"' A ; 2<2"' ; < ; C< 5(' "9<' A :8 5<' ' 4BG 5 2-' "9<' G< 2 ; <2"' :A 2' "9<' N :<5" 25' 4"' 55 :< $ @<<B 2-' " ' ' "9<' <2N : <5' 5 :C ; ""<B' " ' "("9<' ; ; 55 2' B<2<B "9<' 4 C " 4 ?' A =< ' ' "9<' $ A<' 2' 9 : @9' 4 4 5(42B' 594 A0?' B5' " 2- : 59<B' "9<' 5A ": 40' ; ' "9<' "< ; A 40' A =< ' ' "9<' $4A4@?)

K WK _ + + (+ & . . , ' &KWY

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C? 42 <D 6<5 : "& 45 4 A : <0? @94 "4C0< 25" " : " 2F C : "& "5 ; <"9 B5 2 =
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; < ; C< 5) 9< 2- <-4" 2 A <"<2B<B " B 55 0G<& 42B "9 : 5 42" @ A4"<B
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4 0 : < "9< ; ; 55 2& "9< ; A< ; <- : 04"<B "9< B @"< 2< "9<
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B<@04 <B @ ; ; 2 " 400 "9< 9 : @9<5 "9< ; A <) 9< <5 : 0"= 45
4"& 2 "40?& C 59 A5 42B A <5"5 < : 5<B " 4B9< < " "9<5< 4 " @0<5& 42B
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' 6& + ' ' ' % ' ! ' ' / '

4C5<2@< 2' < ; 42?'<24C0<B' "9<' @0< -?' " ' B 5 C<?' 9 ; F' 42B' "9<' $ A<' 94B' 2 ' B 0 @:0"?' 2' ; 4> 2-' 9 5' = 59<5' >2 =2)

"< ' "9<' @ :59 2-' B< <4"' ' (< Aa -& 4A 0< 2' C<@4 ; <' 4' 5 : AA0 42"F 42B' "9<' $ A<' " >' :0(4BG42"4-<)' / 2 = 2-' "94"' "9<' 00 <5' =< <' -9" 2-' 9 5' C4""0<& $:5' ' ": 2<B' 4' B<4 ' <4 ' " ' 4A 0< A)5' <2" <4" <5)' "' 045"& =9<2& 2' 642 : 4 ?& K KZ& "9<' 00 <5' @ 55<B' "9<' 9 2<& 4A 0< 2' < <B' "9<' <5" 4" 2' ' "9<' $4A4(! "4"<5)' 9<' < ' =45' < <@"<BF 5 : @9' 4' <5" 4" 2' =45' 42' 4@"' ' : 5" @<& 42B' @ :0B' 2 " C<' "9<' 5 : C <@"' ' 4' " 8"?)' 2' 642 : 4 ?' Z' "9<' :5" 425' <2"< <B' : - : 2B?F 42B' "9<' $ A<' =45' 4-4 2' @4 <B ' ' " ' ! 4G 24)' %9<2' "9<' 00 <5' 4"' 9 ! " 00 2' B< ; 42B<B' 9 5' 0 C< 4" 2& 4A 0< 2' B< <B' 4 2' " ' C<' @ 2B : @"<B' " ' "9<' :5" 42' :"A 5"5F 42B' 2' 4 @9' KW' 9<' 0< "' ! 4G 24' 2' 9 5' <": 2' " ' 2<)' 5' @4A" G "?' 94B' 045"<B' 2<4 0?' G<' ?<4 5)

9<' ?<4 ' K ' 54=' 42 "9< ' B 5A : "<' C<"=<<2' < ; A< ' 42B' "9<' $ A<' <4@9' 4' @ " @40(A 2"')' 9<' 2<- " 4" 25' ' 4' 2@ B4"' = "9' "9<' 2 <B< 4" 2' ' "9<' 9 2<' =< <' 2400?' C ><2')' 9<' @ 2B " 2' ' "9<' > ; 42' 9 : @9' =45' 0 ""0<' 0<55' "942' @94 " @)' X 2-' "9<' 045"' B<@4B<' ' "9<' < - 9" 2"9' @<2" : ?& 6 5<A9 5 ; ' 94B' 5A <4B' = B<0?' "9 : - 9' "9<' < ; 42' : "5F 42B' "9< <' =< <' ; 42?' @ <5' ' 9 : @9' < ;)' 2' K ' 42' 4""< ; A"' =45' ; 4B<' " ' 54" 5 ?' "9<' @04 ; :)' 2' ' <C :4 ?' U' "9<' <"' A 2 : 2@<B' "9<' B<@ <<' ' 5<@ : 04 54" 2)' ?' "94"' 4 ; :<' @"' 2 "' 20?' =45' "9<' 5 : a< 4 2"?' ' "9<' <@@0<5 45" @40($ 2@<5' ' "9<' ; A <' <D" 2- : 59<B& C : "' "9<' 042B<B' A A< "?' ' "9<' 9 : @9' =45' 98B<B' G< ' " ' "9<' @ G 0(=<)' 5' 2' ' 42@<& @ ; A<254" 2' =45' < <B' " ' "9<' @0< -?' 2' "9<' ;' ' 4' 5"4"<' 5404 ?& =9 @9' ' "5<0 ' =45' 5 : 0@ <2" <G B<2@<' ' "9< ' B<A<2B<2@<' 2' "9<' ! "4"<)' 94"' "9<' G< 2 ; <2"5' =< <' 2 "' 50 =' " ' "4><' 4BG42"4-<' ' "9<' AA ": 2 "?' 5' <G B<2"' ;' "9<' -<2< 40(5 : AA <55 2' ' ; 245"< <5' 2' @ 25<N : <2@<' ' "9<' <@<55)

< <& 2B<<B& "9<?' =< <' ; < <0?' 00 = 2-' "9<' <D4 ; A0<' ' "9<' 5<@ 2B' 4"9 0 @ ! "4"<' 2' < ; 42?)' ! ' <4 0?' 45' K &' 8G ; "4' 94B' C<- : 2& : 2B< ' 28845&' 4' -<28 (< ;' ' "9<' 8 : B9' 2' 6 5<78 5"' 0 2<5)' "' 20?' =45' 42' 4""4@>' ; 4B<' : A 2' "9<' <2B @42"' B< 5& C : "' "9<' 5 : A < ; 4@?' "9<' ! "4"<' G< ' "9<' 9 : @9' =45' : 2@ ; A ; 5 2 -0?' 455< "<B' C?' "9 5' 4"9 0 @' ; 24 @9?)' ' [' 5A ": 40(\' @ : 2@ 0& @ 25 5" 2-' ' "9 <<' $ "<5"42"5' 42B' "= ' 4"9 0 @5& =45' ; <B' ' "9<' <- : 04" 2' ' 9 : @9' 4 4 5)' "' : 224" : 400?& "9<' $ A<' < ; 25" 4"<B' 42B' "9<' C <@" 24C0<' @ : 2@ (=45' B 55 0G<B)

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Z 1 ! U AQ ! +6 , 6 I

9<5< 4 " @0<5 =< < 5" @"0? 424<B " h: <G<c" 42? < -2 :B0:< @<5 0"< 2- 2" ' 42@< "9 : -9 "9< $ "<5"42"5F 42B ; :@9 ; A "42@< =45 4""4@9<B " "9< <B:@4" 2 ; 2 5"< 5) 2 5< ; 24 <5 "9< X ; "9< 425& 42B 2< 4" <2<G4 "9< : - :<2 "58 =< < " C< 5<" :A "<"" < "9< @ 2" 0 "<4@9< 5 4AA 2"<B C? "9< G< 2 ; <2") 2 5"< 5 =< < " C< @9 5<2 C? "9<0 @40 @ 25 5" ?&42B "9< 24 ; <5 5:C ; ""<B " "9< G< 2 ; <2" 4AA G40) < < 4 ; 2 5"< @ :0B <2"< 2 95 B:" <5 9< 94B " "4>< "9< 4"9 ; A 5<B 2 "9< ; 42 @0< -? 9< < ; <B : - :<2 " @9 ; @9<5 =< < B G B<B 2" 0 @40 @ 2m 5 5" <5& G< =9 @9 ; <B "9< ! ! 4 5?2 B) 9< < 845 " C< 2<@ 25 5" ? <G< ? : - :<2 "5F 42B <": 9 @ 25 5" ? =45 " @ 2" :2 2 " 0<55 "942 5 D 42B 2 " ; < "942 "=<0G< 04? ; < ; C< 5) 9< 5?2 B& @ ; A 5<B 4 A45" 42B 4 04? ; 42 ; <4@9 @9 : @9& =45 " C< 9<0B 2 "9< A <5<2@< "9< A < <@" 5:C A < <@"& 42B =45 " 045" 2 " ; < "942 5 D B4?5) 9< (:"9< 42 @9 : @9<5 B < <B 2 94G 2- 5:A< 2m "<2B<2@ <5 42B -<2< 40 @ 25 5" <5 4C G< "9< 0 @"B @ 25 5" <5) G< ? - :A G< 0 @40 @ 25 5" <5 =45 A04@<B :2B< "9< 5:A< G 5 2 4 5:A< 2"<2B<2" 42B "= 04? ; <2& =9 5< 4AA 2" ; <2" =45 5:C <@" " "9< @ 2 ; 4" 2 "9< ' 5" ; 5:0& 42B =9 =< < 2 " B 5@94 -< "9< B:" <5 = "9 :" "9< A< ; 55 2 "9< G< 2 ; <2") 9< -<2 ; 40 @ 2m 5 5" <5 =< < " C< "9 << 2 2 : ; C< & 4" ! " 455C : - & 4 2a& 42B 0 -2<) 9<? =< < " C< @ ; A 5<B 4 04? A <5 B<2"& "= <@@0<5 45" @40 25A<@" 5& 42B 4 B<A :"? ; <4@9 [25A<@" 2)\ 9< A <5 B<2" =45 " "4>< "9< 4"9 400<- 42@<F 42B "9< @ 25 5" ? =45 2 " " ; <<" = "9@ ; " 0<4G< ; "9< G< 2 ; <2" " 5 " ; <"942 5 D B4?5)

9< $ "<5"42" 4 " @0<5 =< < <@< G<B = "9 - <4" <2"9:5 45 ; C? "9< 9: @9<5 @ 2@< 2<B) :"& 2 "9< @45< "9< : - :<2 "5& 24A4 "< 94B B 4=2 "9< "<<"9 "9< -42 54" 2) ' ; < 0? "9<? 94B C<<2 - G< 2<B C? 4 <2< 40 55< ; C0? 42B $ G 2@ 40 55< ; C0 <5& G8 @9 <- :04" <B "9< B 5@ A0 2<) 24A4 "< B<5" ?<B "9< <2< 40 55< ; C0? 42B 5:C5" ":"<B 4 2 : ; C< 5?2 B5& =9 5< 4:"9 "? =45 B< G<B ; "9< @ G 0 A =<) 2 59 " 9< < 45" 42 5<B "9< $ <5C?"< 42 5?5"< ; = " 5" 00 - <4"< 5:@@<55 "942 B B 64 ; <5 2 ! @ "042B) < B< <B "9< 422 G< 54 <5 95 C "9B4? 42B 9 5 @ 24" 2 " C< C5< G<B 45 <5" G405 2 $ "<5"42" @9: @9<5)

9< $ "<5"42"5 =< < 40 2< 2 2B 2- 2 @4:5< @ ; A04 2" :2B< 4A 0< 2) B :C"& "9< 5 ; 4002<55 "9< 2 : ; C< 5 =45 4 A "<@" 2 " "9< ;) " =45 "9< = 5< = "9 "9< 6<=5) 2 <": 2 2- ; :5"< 0 "a& 4A 0< 2 9<4 B "9< <D" " 24"< 2"< <5" YU A< <2") E B< ; 42B<B C? "9< 6<=5 2 054@<F 42B 9 5 42 - < =45 > 2 - <B C? <A "5 "94" "9<? <G4B<B @ 25@ A" 2) 2 4? & K & 9< 5:5A<2B<B 4 ?<4 400 @ 2" 4@"5 <2"< <B 2" C<"=<<2 4- @:0": 5"5 42B 6<=5 2 "9< <45"<"2 B<A4 " ; <2"5F 42B 9< B<@ B<B " < ; "9< [0 @:5"5 "94" =< < 4G4- 2- $= ; @<)\ 2 B< " :5< "9< 6<=5 = "9 "9< ' <2@9 24" 2& 9< B< B<B " 5: ; ; 2 4 [6<= 59 !"4"<5 "<2< 40)\ < 5" @ 2G ><B 42 55< ; C0?

K KZ_ R % * # 3 J L

2"42- C0< 45 "9< A <55: < "9< 2" 2<2"40 0 @>4B<& 42B 4-4 25"
=9 @9 "9< ; -9" <5" 4 ; ? 845 A =< <55) ' @< "" *<<B<B 4-4 8"
"9< $ A< 5 4 "94"& =9<2 = 2 :" C? @4A" G "? 42B 94 455<B C? A B :5
4BG @<& $:5 =45 2B:@<B " 5 -2 "9< <4"? ' 2" :2<C08) :"
4 2@ B4" "9 5 > 2B& <G<2 "" 94B 2 "C<<2 B<2 :2@<B C? "9< $ A<
; ; <B 4"<0? 4 "< "5 5 -24": <& = :0B 94G< C<<2 :5<0<55) \$4A4@?
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<""< <B C? 42 4- << ; <2" =9 @9 =45 5 @9 20? 2 ; ; <& " 4 ; <B < 2
5"42"0? 4" <@ G< 2- "5 2B<A<2B<2@<F 42B "9< 42"4- 2 5 ; C<"=<<2
9: @9 42B !"4"< @ :0B 2 " @<45< :2" 0 "94" <2B 94B C<<2 -4 2<B)
"< 400& " ; 4? =<00 C< B :C"<B =9<"9< 4 A< ; 42<2" 4- << ; <2"
C<"=<<2 4A 0< 2 42B "9< \$4A4@? =45 A 55 C0<) 9< ; < 4 ; <B 4"
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B ; 2 2F "9< 04""< 9 A<B C? 4- << ; <2" = "9 ' 42@<" C"4 2 2 " 20?
A<4@< "9< 9: @9& C:" "9< <@ G< ? 9< 0 5" A 55<55 25) < <
2B<<B 0 <5 "9< 5<G< <5" @ " @ 5 ; "94" @42 C< 0<G<00<B 4" "9< A 0 @? \$
:5) "" @42 C< A04:5 C0? : -<B "94"& 2 "9< <4 0? ?<4 5 9 5
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42D <"? 45 " "9< < ; A 40 \$ =< =<4><2<B 9 5 B< <2@<F 42B : "9< &
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" 4B " 25 9 5 R8@<) ? 945 ; 5"42B 9< 4 5<B "9< \$4A4 ? ; " <
B<A"95 @ 2"< ; A" 2" =9 @9 "" 94B 400<2 B: 2- "9< < -9"<<2"9
@<2": ?& 42B 9< 59 =<B "94" "9< 0? !<< =45 4 A =< " C< <@> 2<B
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4 @4A" G "? 8 5" 4 "< "942 "94" =9 @9 9 5 A< 5<@: " =45 " :2B< - &
42B "9< 5A<@"4@0< "9< 9<0A0<55 0B ; ; & B 4--<B 4@ 55 : A< 4 "
"9< 5> 9 5 0 < C<@4:5< 9< = :0B 2 " - 42" "9< B< ; 42B5 42 G< m
=<<2 2- "? 42"& 4 :5<B 4" 2@< "9< A "?& "9< 42-< & 42B "9< <2"9:5 45 ;
"9< = 0B) 2 ' 42@<& \$:5 = 00 C< < ; < ; C< <B& 2 " 20? 45 "9<
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) G2)

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K ,Z· . ' ' '%+ ' ' # K

2 '" 4C42B 2' 9 5' B425)' <' C8 4 2' " ' "9 2>' 4'" "9<' ; <425' C?' =9 @9' 9<' @ : 0B' C"4 2' "< ; A 4 ?' @ ; ; 42B' '"9<' 5" 4 "5)

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) K ' J ' ' % ' > % + 7 - & ' . , ' I Z

59 A5 =< <2@ :2"< <B 4B a C? : " 59 -4"<5) 9< !A42 59 @ ; ; 42B< =45 5: ; ; 2<B " 5: <2B< 42B B j 8F4 B<B "9< 5: ; ; 25 "9< @<5 C< 2-<N:40 2 <"9< 5 B< 8 :-9 9< %45 N: "< 2A <A4 <B " <5 5") 59 "C:" : :5 4@" 2 00 =<B 2 =9 @9 2< "9< !A42 59 G<55<05 = "9 4 2: ; C< 2 @ ; C4"42"5 2 C 4 B C0<=: A "9< "9< "9 << =< <@4A": <B) % "9 " <45: <G40:<B 4" 6$K &) 0 <4@" =45 B<2 :2@<B 45 2< A 4@?C:" 2 "9<@ @: ; 5"42@<5 42B 2 G <= 9< A04 2 =4 2 2-- G<2 " !A4 2 " =45 :5" 4C0<"9< 20?; 5"4><C< 8 "94" 42 24B<N:4"< @< =45 <; A0 ?<B 8 %4 =45 <0:@"42"0?B<@04 <B C?!A4 2 2 <@<; C< K :2B< A <55: < ; 4A 0< 2) 2 "9< 54 ; < ; 2"9 4 !A42 59 @ 40 <": 2 -4G<"9< !A42 59 @< 4G4 04C0< 45 "<<2 59 A5 "9< 0 2< 4" 4B a < 8 " 4" 4 "4-<24 42B 2 2<4" ' < 0F C:" = ; 2"95 = :0B C< <N: <B " -<" 400 " <5< 59 A5 <4B? 5<4) 9< 4 5<2405 = ; < ; A"?F 4" 4B a " < A04-:< =45 8 2 - F 42B "9< < =45 4 B < =42" :2B5)

9< 400 42@< = "9 !A4 2 ; B <B "9< 5" 4"<-@ A 5 " 2 42B 0<B 4A 0< 2 " ; 4>< ; A "42" @942-<5 2 9 5 A0425) 2 !<A"<; C< K Z 9< 94B 4AA 2"<B 0<2<:G< " "9< @ ; ; 42B "9< :0 2 5N:4B 2 42B 94B B<"4 0<B Y ; <2 :2B< ; 40 4: 5" 4 " ; < ; C4 > 2 C 4 B "9< 0<<") <@ "< 9< 5<2" 25" :@" 25 42B A0425 5<G< 40 <DA<B " 25) 2 "9< 5" A04@<"9< @9< " 5N:4B 2 =45 " 54 0 " "9< %<5" 2B <5 2 B< " < 2 @< "9< ' <2@9 -4 5 25 "9< < 42B 5< a< ; 2 @4 42B !42"4 (:@4) 9< C:0> "9< :0 2 0<<" =45 5 ; :0"42< :50?" 5< a< !: 24 ; 42B 4 "< =4 B5 " 2 "9< B < " 5N:4B 2) 8< =9 0< @<"9:5 @ 2@<2" 4"<B =45 "9<2 " 4AA<4 ! ; ; 2- 4""4@> 64 ; 4 @4 <": 2 " ' < 0 42B 0 C< 4"< "9< 5N:4B 2 2 "94" A "2400?A:"" 2- 2 " @9< " = "9 "=<2"?54 0 "9< 0 2<) (45"0?"9< <5" 0<<" =45 " 54 0 = "9 K & ; <2 <042B 42B 4 "< 042B 2- "9< ; " ; G< C?< "9< "9< 2 "9< 2 "9< 5 :"9< 2 :"< " "9< <D<0 :0 -2<) 9<5< A0425 9 =<G< 4AA<4 " 94G< C<<2 2"< @<A"<B C? " 59 4-<2"5 5 2@< "9<?B 54AA<4 <B 5<G< 40 B4?5 42B <G<2":400?":2<B :A 2 4 B4 ; 4-<B <2G<0 A< = "9 "9< A 5" ; 4 > [:0 -2<)\ " 945 C<<2 5:--<5"<B "94" 4A 0< 2 A: A 5<0? 400 =<B "9< ; " 400 2" " 59 942B5 2 B< " B G< " 59 4""<2" 2 " <042B C:" "9 5 5:AA 5 " 2 5 ; A C4C0<45 "9< A0425 <; C B <B ; 42? <4": <5 "9< @ ; C 24" @ ; =9 @9 00 4<:G< 4 "< =4 B5 4""<; A"<B " <D<@:"<) 2 0<4 2 2- =94" 94B 94AA<2<B " 9 5 25" :@ " 25 4A 0< 2 B< <B "9< <5" 59 A5 2 " " < ; C4 > 42? " A5 C:" " < ; 4 2 2 <4B 2<55 5<4)

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@4) G D)

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K U_ > 3D ' %+ ' ' * + W

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[' 2-042B' <DA<@"5 "94"' <G< ?' ; 42' = 00' B ' 9 5' B : "?)\' - 2400?' 9<' 94B' 2"<2B<B' 4' B < <2"' 42B' A< 94A5' =4 ; < ' 4AA<40' @45"' 2' 4' ; ' =9 @9' <DA <55<B' 2 "' <DA<@"4" 2' C : "' @< "4 2"? 3 [<05 2' @ 29B<5' "94"' <G< ?' ; 42' = 00' B ' 9 5' B : "?)\' : "' <G<2' 2' "5' 40"< <B' ; ' "9< 5 -240' <G ><B' 4' a<40' 42B' 5A "' 0 >< 9 5' = 2F' [' "' 5<< ; <B' 0 >< 25A 4" 2' " ' ; 5"' ' "0 < ;)\' 9< 045"' 42B' 2G4 4C0< B< ' ' "9< <05 2' C4""0<' [2-4-< ; < @0 5<0?' \' 00 =<B' : 5"' C< < "9< 2-' C<-42)' 9<5<' = "9' "9< A 55 C0< <D@<A" 2' ' 42' 2" ; 4" 2' " ' 00 2-= B' "94"' 9< ; <42"' " ' < 2"' 4-4 25"' "9< 400 <B' G42' =< < 400' "9< ; A "42"' 5 -2405' ' "94"' ; 2 2-' 00 : 5" 4" 2-' "9< A< <@"' <"9 : -9"' ' "9< 4B ; 40' "9< @ ; A0<"< A <A4m 4" 2' ' 400' @ 2" 2-<2@ <5)

9< C42B5 A04?<B' 2' "9< " 59' 59 A5' 45' "9<?' =<2"' B =2' " ' C4""0<' 2' <- : 04 ' 0 2<5' = "9' 0 ""0< A <@ 5 2' ' ; 4" 2)' 6 : 5"' C< < @0 5 2-' 00 2-= B' =9 5< @ 0 : ; 2' = 2-' " ' "9< <2< ; ?J5 ; 4" 2' =45' 2 =' 2<4 0?' A4 400<0' = "9' "9< 400 <B' <4 ' -4G< "9< 5 -240' " ' C<4 ' : A' " -<"9< ' " ' ": 2' " ' "9< -9"' 42B' 4""4@>' 45' 2<4 0?' 5 ; : 0"42< : 50?' 45' A 55 C0<)' <05 2J5 @ 0 : ; 2' =45' 5" 00' 2' 0 2<' 49<4B' 50 -9"0?' @ 2G< - 2-' 2' "94"' ' 00 2-= B)' 9< 5"' - : 2' =45' <B' C?' 4@@ B<2"' 2' 4' " 59' 59 AF' "9< 2<D"' 59 "5' =< < <B' C?' "9< 00 <5' 4C : "' ; BB4?' 4"' "98 858@6' 6 ! # 45' 59< 4AA 4@9<B' 2' 4BG42@< ' 9< ' 0 2<)' ' B< 8 0b8 : B' ' 5 ; >< -4"9< <B' : 2B' "9< ' 0 2<' 45' "' ; G<B' 2 "9F' @8 2-= CB.8' <5< G 2-' 0 : J5 <' 9<4B<B' ' "9< "=<0 "9' 59 A' ; ' "9< ' <4"' C : "' 4"' "9< 045"' ; ; <2"' 5=< G<B' 42B' ; 4B< ' "9< "9 "<<2"9' =9 @9' =45' 04 -<)' 9< 00 <5' =< < 2' "9< @0 5<5"' A 55 C0< B< F' C : "' 00 2-= B' =45' 2 "' " ' C< B<2 <B)' < B G< 5" 4 -9"' 49<4B' <4B?' " ' @42?' 4=4?' "9< C =5A "' ' "9< ' <2@9' G<55<0' 45"< 2' ' 9 5' N : 4 ?F' 42B' "9< ' <2@9 ; 42' -4G< =4?' C< < 9 5' : 2 0 2@9 2-' "<24@ "?)

' ; ' "9< . =' "9< = ' 6 ! ' =45' 5<<2' " ' G42 59' 4 ; B5"' 4' "< ; A<5"' ' 2-' 2' "9< "9 @>' @0 : B' ' 5 ; >< F' "9<2' 9< ' "400' ; 45"5 59 =<B' 2' "9< : "9< ' 5 B< ' "9< 0 2<' 42B' "' =45' >2 =2' "94"' 00 2-= B' 94B' -0 : 50?' A< ; <B' 9 5' "45>)' ! ; < ; 2 : "<5' 00 =<B' C< < 5 : AA "' <4@9<B' 9< F' C : "' <05 2J5 @ 2 B<2@< 2' 9 5' 5 : C B 24"< =45' : 5" <B)' 9< = ' 6 ! & ' < =45' B<4B0?F' "' " < B =2' "9< 5"< ; ' ' "9< 6 ! ' ! # 42B' @4 : 5<B' - <4"' <D<@ : " 2' 2' "9< A <55' ' 9 5" 0< 59 A5' -4"9< 2-' : 2B' 9<)' < ' <2B5' 00 =<B' <4-< 0?' " ' 9< ' 4 BF' "9< < =45' 2 ' 942 - 2-' C4@>' 2' "9< 0 2<F' 42B' 45' 2< C?' 2<' "9< "9< ' 59 A5' : B @ : 50?' C : -9"' "9< ' C 4B5 B<5' " ' C<4 ' "9< C4""0< 2' "9< <4 ' C<-42' " ' - ' B<@ 5 G<0?' 2' 4G ; ' ' "9< " 59)

2' "9< 0< ")' <05 2' =4"@9<B' = "9' 2"<25< 4B ; 4" 2' 00 2-= BJ5 < @< 25<"' 45' "9< . =' 50 =0?' @ G< <B' "9< 5A4@< C<"=<<2' "9< 0<"5) < < 2"<B' " =4 B5' "9< ' <2@9' G42' 45' 9< @4 ; < = "9 2' 42-<' A C4C0?' = "9' "9< C <@"' ' 9 0B 2-' "' 24@" G<' 42B' "9<2' " : 2<B' 594 A0?' " ' "9< -9"' 42B' 4 "< ' A455 2-' 5 ; < B 5"42@< B =2' "9< <2< ; ?J5 0 2<' "N ; <B' 0< "' 42B' C >< "9 : -9' 9 G 2-' 9 5' 04-59 A' "9 : -9' "9< 5 ; >< 42B' 04 ; <' 42B' 5 : < 2-' 9<4G?' 0 55' 45' "9< ' <2@9' - : 25' 4><B' 9 ;)' < A455<B' : 2B<

B17 > + , ! # I0 U

"9<5"< ; "9<"<2"9 59 A 2"9<400 <B0 2<"9<QB #A : 2-2" S9< 4 4> 2- <= 9 @9 C : -9" @0 : B5 B:5" 42B 5A0 2"< 5 ; 9< 9:00 9<2 4 "<" A<2<" 4" 2-"9<400 <B 0 2<9< ": 2<B " 5"4 C 4 B 4-4 2 42B B AA<B 2 C 4 B 4 ' <2@9 YZ "9< " =45 4C :" K) $) =9<2"9< . =C ><"9< ' <2@9 0 2<)

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00<2<:G<!5"4@" @5 2"9< "9<942B =<<"9<5 ; A0<5" B<5@ A" 2) <2"< ; 2-0<B "9< ' <2@9 42B !A42 59 59 A5 " A <G<2" ; 5@ 2B:@" 2 "9<A4 " "9<04""< 42B "9<2 4B A"<B 4 A455 G<4"" ":B<9 B @"4"<B 2 B :C"9 C?9 5 @< 5 =42" 5>00 42B A 4@" @< 2 ; 42 <:G 2-) 5 9< 94B 54 B 4" 42 <4 0<B4"<9< <=45 C:" 2<<G 0:" 2 =9 @9 "9<?=<<@4A4C0<42B "9 5 =45 ; 2-0 2<) :"9 "9<0<4B< B A "9 :-9 :" "9< 0<<" =45 2B < <2" C4B9 "9< <=45 2 =42" 2B m G B:40 @ : 4-<) 9< ' <2@9 42B !A42 59 5<4 ; <2 B 5A04?<B "9<- <4"<5" C 4G< ?42B 5: < <B "< C0<0 55<5 C< <"9<?@ :0B C< 2B:@<B" 5" >) 9< 5" ' <2@9 59 A 5" :@> 4C :" K 1 - 5 2 4 "< "9<<2-4-< ; <2" 94B C<@ ; <-; < 40F " < " 00 2-= B) ' ; "9 5 9 : 2=4 B "9< -4"<5 =4"@9 2-"9<C4""0< 54=4 5"<4B? 5:@@<55 2 5: <2B< 5 2<"= B<@>< 4" K) UF "= 59 A5 " "9< . =42B 2 8 4" K)U F [5<G< 408\4" J@0 @>) % "9 <4@9 5: <2B< 00 < B< ; 40 54" 2 "9< 400 <B 0<<" 42B "9< @ 2 B<2@< "9< " 59 2@ <45<B) :" "9<5< <5"B"5 =<2 " = 2 = "9 :" - <4" 0 55 " "9< " 59 C "9 2 @< 5

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3$>8 ' +' ' ,' $ ' , ' ZK

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K ' K Z'K U' K ' K Y' K ' K W'K K ' K KK' K K 'K
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2' 2-042B' = 0& 5 0>&" ; C< & 42B' 9<; A' 5<' <2 ; :50?' 2' A @< 3 85 0>&
' <D4; A0<& ;' 5)' A< ' 0C)' " ' KK8)& 42B' ; 5'" "9< ' ; 4"< 405' 2' A m
A " 2)' 9<@ 2" 0 ' "9< 40" @' C?' 4A 0< 2& <5A<@ 400?' 2' K K KK&
59 >' 2-042B' " ' 9< ' :2B4" 25)' 2' K K8' "9< " 59' A< A0<' =<' <' 4@<'
" ' 4@<' = "9' 4@":40 4; 2<& = 2-' " ' "9< B<; 42B5' ' "9<' ' <2@9' 4 ; ?'
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'" 945' C<<2' @40@:04"<B' C?' 8"4 2' 4942E "94'" "9<' 4G< 4-<' 422:40
0 55' " ' "59' 59 AA 2-' C?' @4A": <' =45' U Z' G<55<05& ' 42' 4G< 4-<' '
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42<42& B: 2-' "9<' "9 B' N:4 "<' ' "9<' ?<4' &K U& "9<' 5>' G4 <B' ;'

y) y xy y G 2) K

K K ; H ; ,C # 1 & M # \8 # Z & J

9 0 55<5 "9< ' <2@9 42B "9< 400<5 2 "9< =4 =< < <2 ; :5) 8%9 0< "9< " 59 24G? B B 2 "0 5< 4 5 2-0< G<55B "9< 9"< 2 4@" 2 C? @4A": <& "9 "? 2< ' <2@9 59 A5 A "9< 0 2< =< "< @4A"= <B "B< 5" ?<B C? "9< " 59& =9 0< 5 D ; < =< < @4A": <B C? "9< !A42 59 25: -<2"5F !A4 2 0 5" "=<0G< 54 0 "9< 0 2<& 0042B "9 <<& <2 ; 4 > 2 2<"<<2& 42B :55 4 2<) :" "9< " 59 0 55<5 ; 5" ; 5 42B 59 A= <B@5 =< < 2: ; < :5 "9 :-9 :" "9< =4 & 45 =45 " 9< <DA<B<B 2 4 0<<" =9 @9 =45 @ 25"42"0? @<B " ><<A 4" 5<4)

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2 642 04 8 K U8 4 ; 2"9 4 "< 9 5 @ 24" 2 45 ; A< 4A 0< 2 = "< " < -< A A 5 2- A<4@<4 45 2< "9< 24" 2 94B 42?"9 2- " -4 2 C?" =4 9< =45 4 ; 4 ><B @942-< 2 9 5 " 2< ; "94" K 0 9<2 9< B<@04 <B "94" <4" "4 2 =45 2 ; 4"@9 ' 42@<4 42B "94"4 "9< 2-0 59 =< < "9< 5" " B 4=" "9< 5= B4 9< = :0B C< "9< 045" " 59<4"9< ") %9<"9< 9< 94B C :-9" 8 4C :" "9< 4A": < "9< $<4@< ; <25 5<" A: A 5<4 94B C: 0" G< ; :@9 2 2B 8 55?J5 455: 42@<5 "9< A4@ @ "< ; A< "9< " 59 ; 2 5" ? 42B A< A0<4 9< 94B 0 ""0< <45 2 " C< 54" 5 8 = " D "9< <5:0") : A< =45 " 24 =" 4 <0B 9 5 4@" G "?F " ; B 9 5 ; 2B =45 2m @<5542"0? <G 0G 2-5 5@9< ; <5 @ 2N:<5" 42B @@B 2 40 <DA425 2 2 <45" =<5"4 " =9 @9 2-042B =45 "9< - <4" C5"4@0<F C:" "9< <2<=40 =4 = "9 9< 94B 2 " : "9< <B "9< ;) ' <2@9 " 4B< 94B C<<2 B G<2 "9< 5<4F "9< ' <2@9 0<<"5 =< < B @>4B<B 2 "9< A "5) !42"4 (:@ 4 42B "9< % <5" 2B 42 5042B5 94B 4-4 2 A455<B 2" " 59 942B5F !42 ; 2- 4 "9< <@ 2N:<5" =9 @9 5:@9 - <4" < "5 94B C<<2 ; 4B<4 94B 5<@: <B "5 2B<A<2B<2@<F 42B (: 5 424 "9< 2<= 4@N: 5 " 2 ; =9 @9 5 ; :@9 =45 9 A<B 94B C<<2 5 0B " "9< 2 "<B !"4"<5)

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K K U_ 4 #! 5 6 ' ZY

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M C<2a0' 94B' ; 4B<' 42' 4""< ; A'" 2' "9 5' B <@" 2' 2' K K& =9<2' 9< 5:@@<<B<B' 9:- :'" 45' ' < -2' 6 2 5"< F' C:'" '" ; <'" = "9' 2 ' 5:@@<55)' 4A 0< 2' 0<42<B' " ' \$:55 4' 42B' 4G4 4F' 42B' <4@9' ?<4 ' 94B' C :-9'" @942-<5 " ' "9<' B 54BG42"4-<' ' :5" 4)' 5' <2B<4G : 5& 45' 5 2' 45' 9< C<@4 ; < ; A< & " ' <A <5<2'" 9 ; 5<0 ' 45' "9<' 5:@@<55 ' ' 94 0< ; 4-2<& :5<B' "9<' <4 ' "94'" "9<' :5<' ' 4C5C"2-' = :0B' 0 5<' "9<' " ":04 ' 9<4B59 A' ' < ; 42?& 42B' 0<B' ' 42@ 5' " ' 4B A'" 4' 2<=' " "0<' ' 9 ; 5<0 & ; 42' ; A< ' 0<@"& < <B "4 ?' ; A< ' ' ; " 4' \' :-:5'" KK& K ZE)' "9' 9<' 42B' 9 5' ; 2 5"< ' - 4B:400?' B "<B' " =4 B5' "9<' =4 ' A4 "?& ; 4B<' :A' ' "9<' @9B:><!5' AA 2<2")' 9<?' @4 ; <' " ' "9<' < 2 ' <0:5 2' "94'" =4 ' = "9' "9<' 9<0A' ' 400 <5' = :0B' C<' 4' 0<55' <G 0' "942)A<4@<' = "9' 5 04" 2)' ' "9<?' <4 <B' 4A 0< 2& "9<?' 405 ' <4 <B' 0<D42B< F' 42B' "9<?' =<' <' 4C G<' 400 "9 2-5' 42D :5' "94'" :55 4' 59 :0B' 2 '" @ ; <' " ' 42' :2B< 5"42B 2-' = "9' ' 42@<' :20<55' :5" 4' =<' <' 4' A4 "?' " ' ")

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G 55 0a " ' =45' =4 " 2-' 4'" < 0 2' ' A455A "5' " ' A @<<B' " ' ' 425

K Z _ > % + ,) ! P 8 (# ' 1 , ! UK

C?"9< 2 BB0< @" C< "=<2"?B4?5 45 "=45 <@> 2<BC< 9< ' <2@9 ;?@ :0B 4 G< "9< ; "B -2< "=45" C< 00 =<B C?"= "9< 5 :2B< <22 -5<2 42B :D9 =B<2) :5942 @< =45 405 " C< 5<2"= ! "405:2BH" ;A4 "42 9 ;?U & ;<2 :2B< 5"4G:5 ;4B< :A ! =<B<5 42<5 4"4 G< 425 42B 2-059 =9 @9 =45" <@ G< 42 G< 42B 2G4B< 0042B =90<42 80 :55 42@ A5 & ; <2 = "9 ! & <4A 0"4258 =45" B G< "9< ' <2@9 :" 5 :"9< 2 "40?)

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) x)

AL $ # 2C C & < ! * ?

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4A 0< 2' =4 "<B' " ' 5<<' "9<' " A5' 4'" 0 ;' =' B =2' "9< ' 4 ; 5)' 2' 8C< ' K& "9< B4?' 2' =9 @9' 9 5' 24G40' A =<' =45' 594""< <B' 4'" 4 40-4 & 9< 0< '" 0 ;' ' :-5C: -& 4 "< ' 2G " 2-' 9 5' 5 0B < 5' " ' B<40' = "9' =<' :55 425' 45' "9<?' 94B' B<40'" = "9' "9<' :5" 425& 42B' " ' 5<""0<' "9<' N:<5" 2' =9<"9< ' "9<' ' <2@9' 42" ?' =45' "9<' 5<@ 2B' ' "9<' !a5'" 2' : A<)' <' 94B' 5" ' 2 ' <45?' "45>' C< <' 9 ;)' / :" :5 ' 94B' <4@9<B' 4 24:' = "9' Z & ' :55 425& 42B' =45' 2<B' "9< <' C? U& ' :5" 425)' 2' 4' <=' =<<>5' 42 "9< ' :55 42' 4 ; ?' % :0B' @ ; <' : AF 42B' @9B:><' 94 0<5' ; -9'" C 2-' 9 5' " A5' ; ' "40?' " ' 9<0A' 2' C4 2-' "9<' 4B' " ' <224& ' ; -9'" B<5@<2B' 2' "98' B42>' ' <4 ' ' "9<' ' 0<2@9' 4 ; ?' 45' '" ; G<B' B =2' G400<?' ' "9<' ; :C<)

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9<' 2<=5 ' "9 5' 4 2'" <4@9<B' ' <B< @>' % 00 4 ;' 4'" 4' @ " @40' ; ; <2")' 9<' 54 ' 94B' C<<2' A <55 2-' 9 ;' " ' 2' "9<' 4 " 2& ' 4'" 42?' 4"<' " ' 400 =' "9<' :55 42' " A5' " ' @ 55' ! 0<5 4)' <' 94B' < :5<B& 42B& =9<2' 9<' =45' " 0B' "94'" "9<' :55 425' = :0B' @<' "9< ' =4?& 9< 94B' A:'" 9 5' 4 ;?' 2' 4' =4 ' <5"4C0 59 ; <2")' 0<D ; B<' =45' :2=00 2-' " ' @4 ?' :'" 9 5' "9 <4"F @ ; B' "9<' ; 4 @9' ' "9<' :55 425' =45' B<04?<B' ' 5 ; <' =<<>5)' <' 5<2'" 0- :>' " ' < 0 2' = "9' 4' +59' 4AA<40F C:"

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K U_ $ + ' ') ! @)

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<- " 4" 25' ' A<4@<' C<"=<<2' ' 42@<' 42B' : 5" 4' =<' <' C<- : 2' 4" > 05C : -& 42B' @ ; A0<"<B' 4" $ <55C : -' <@< ; C<' E)' ' <A <m 5<2"4" G<5' ' "9<' $ =< 5& <D@<A" 4G4 4& =<' <' 400 =<B' " ' "4><' A4 " 2' "9< ; J' : 5" 4' <@ -2 5<B' 4 ' "9<' @942 -<5' 40 <4B7' ; 4B<' C7' ' 42@<' 2' "40?& 42B' @<B<B' #<2<" 4' 2@0 : B 2 -' 5" 4' 42B' 40 ; 4" 4& C : " 2 " <5"<E' " ' "9<' / 2 -' ' "40?& 5 : C <@" " ' "9<' A ; 5<' 40 <4B7' ; 4B<' C7' 4A 0< 2

<_ ; , 3 ; % < %! * ! W

4C5 C<B 2 C< !"4"<5 <@ -2 5<B C : "9<?0<"4 ; <B "9< < : B40 -9"5 42B "9< A4" ; 2 <5) 4" 5C 2 42B "9< << @ "? ; C< - <00 " 4G4 4 45 : -5C : - 94B 400<2 40 <4B?) $ G 5 2 =45 ; 4B< "9< 4B9<5 2 "9< < ; 42 $ 2@< :"5 B< "9< C : 2B4 <5 "9< 2 <B< 4" 2) 4A 0< 2 =45 B<@04 <B $ "<@" F 42B 42 400 42@< =45 ; 4B< C<"=<<2 "9< 2 <B< 4" 2 42B "9< ' <2@9 ; A < C 2B 2- <4@9 " 9<0A "9< "9< 2 42? 2" 2<2"40 =4) 9< @ 2" 2-<2"5 "9< 5<G< 40 !"4"<5 =< < D<B "9< " "48 4 ; : 2" 2- " & W ; <2 4C : < -9 A< "9 :542B "9< A A :04" 2)

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7 ! * 3 ! Y

C<@4 ; < ; < 5* : 5 42B 2 "9< "9 9< 4<2" < "9 < 25" 4@" 45 ") ; 4><4 42-< ; <2"5 @ 9@<2" 4" 2- "9< 4 ; ?2<4 4 ; C< - 2<@<5 54 ?(42B " <@ 22 " < "9< 4B5 " < 0 2) < = "< " ' <B< @> % 00 4 ; 2G " 2- 9 ; " B 5@ 2" 2 : < 9 5 ; 0 "4 ? A <A4 2" 25 !<A "< ; C< ! E) 9< ' <2@9 <2G ?5 4" < 0 2(<5B<2(42B 455B =< < B <@"<B " 2" ; 4"< "94" 2< "9< ! 4D 2?2 <55< ; :5" 4 ; (42B "94" "9< <2" ? ' :55 49 " A5 2" ! 4D 2? = :0B C< <-4 B<B 45 4 B<@04 4" 2 =4) :" ' :55 ; " A5 ; ! 0<5 4 94B 40 <4B?<2" ; <B ! 4D 2? 2 "9< K "9 "9<?@ 55<B "9< e0C< 2<4 <5B<2(42B "9< ! 4D 2 " A5 =< < ; C 0 5<B " 2 "9< ;) 9< 0<@" <55< "< ; A 5<B(42B <G<2" : 400? B<@04 <B 9 ; 5<0 2<: " 40)

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))) x)) x) K

YZ ! < > % + 1 %+ &1 I 5 <
5
42B 4 % 4 < 0 : 9 $: 55 42 4 ; =45 4 4 B 54BG42 4 - < 2 ; 42? =4?5) 94B 5<<2 2 =4 5< G @< ; ?<4 5) =45 9< / 2-5 4 ; ?* 2 9< 5: ; ? 9< 24 2 42B 94B 2 <5< G<5 C<9 2B) 94B 40=4?5 C<<2 4 9 8 G ?: C: B<2 2 9< @ : 2 ?& 42B 04 < ?<4 5 9 5 C: B<2 94B C<<2 0<55 A4 <2 0? C 2<F @ G 0 2 < <5 5 94B A <G4 0<B& 42B ; 0 4 ? < ; 5 94B C<<2 < <@ <B 9< ?2G 0G<B ; : @9 <DA<2B : <) 9< ; : 5><5& 54?5 04 : 5<= a& =< < 9 - 90? A 0 59<B& C : 9< ?* =< < 9< = 5 2 2 - 9< ;) ! ; < C<0 <G<B 2 $ 2@< 9<20 9<& 9< 5 2 : @9<0& C 9 =9 ; A 55<55<B 4C : 2B42 5<0 @ 2 B<2@<& 42B =< < @ ; A4 4 G<0? ? : 2 - & 9<20 9< C< 2 - 5 D ? 42B : @9<0 ? 9< 4 : 25= @> 94B A A 5<B 94 9< 4G4 04C0< @<5 59 : 0B C< 455< ; C0<B 4 4: ; C : -) < ; 2< 4 ; ? : 2B< 9 5 @ ; ; 42B) : 9< =45 G< : 0<B) =45 B<@ B<B 94& 2 9< 0< < 9< ; 4 2 4 ; ?& 9< < 59 : 0B C< 42 9< 4 ; ? 2B< 9<20 9<) @ G< <5B<2& 42B 2 9< - 9 4 5<A4 4 < @ A5 : 2B< : @9<0) A < @ 455<0) 9< - <4 < A4 < 9<20 9<05 4 ; ? =45 4 < =4 B5 C : - 9 G<) 9 < =<5 < 9< ! 440<&) <A4 < 2 42 4BG42@< 9 : - 9 9< C : 2 - 42 ' <5 & C? =9 @9 < =45 9 A<B) 5 : A 5< 9< ' <2@9 4 ; ? 2 5 @42 2 ; <2 5 42B) @ : < 2 =) : 9 5 <25 G< ; G< ; <2 94B) =4 < 9< <G 4 2 ' < ; 24 ; <B 2 9< $: 55 42 : ; <5 04? C< = <<2 5<24@9 42B 6<24& = 9 4 <= 9 : 542B ; <2 <45 9< ! 4 B<& - : 4 B 2 - 9< A 2 5 =9< < 94 < G< =45 @ 55<B C? 9< 4B5) < Aa - 42B <5B<2) 9< 2 4 G< =45 0<) 9< ' <2B) =45 9< 2 <2 2 2 4A 0< 2) ; 4 @9 5 4 - 9 2 < 0 2 ; 9< G< 4 2& =9 0< 9 <4 <2 2 - 4 4@> ; 9< 0 = < 9 2< C? =4? 25 <) < <DA<@ <B 94 9< 9< $: 55 425 = : 0B < ; 4 2 2 9< B< <25 G< C<9 2B 9< 0C< =4 2 - 9< : 55 425& 42B =45 5 : A 5<B) 2B 9< ; 4BG42@ 2 -) < <9 ;) 9 5 - 4G< 9 ; 42 AA : 2 ? < <A<4 2 - 9< ; 42 < : G < 0 ;) 5 A042& 45 9< <DA04 2<B) 9 5 C 9< (: 5 4 9< <2B < ! <A < ; C< & =45) < ; 455 400 9 5 @<5 2 9 5 <D < ; < - 9 0<4G 2 - 9< @ : 2 ? C< = <<2 4 ; C< - 42B 9< 9 2< C4 <) A5) 9< <2< ; ? 59 : 0B) ?) : 2 9 5 0< 42B @ : 9 5 @ ; ; : 2 @4 85& 9< = : 0B 9 = 9< ; C4@> : A 2 9< 9 2< & =9 @9 =45 - : 4 B<B C? 4 @ A5 : 2B<) < 4 4 2a& 42B C? : @9 A5 : 2B<]H : j 4 %<5B) 9< =< < 9 ; 5<0 B< <4 <B& 9< 59 : 0B 400 C4@> 2 9< 42 : C<F C : K* 94B 2 ; : @9 <4 B< <4) 9< B<A0 ? ; <2 9 5 @<5 = : 0B C< 5 ; A 5 2 - 42B 5 4A B 94 9< $: 55 425 = : 0B A C4C0? 9 2 ? C4@> 0 B< <2B 9< @4A 40) *
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$ -;8 ' $ + ' < 3 + ,' ,') ! ' ?

"9< ' 425< =25) 4G 2-' - G<2' :A' 400 9 A< L ; 4>9 -' A<4@< = "9' 2-042B& 4A 0< 2' B<"< ; 2<B' " ' =4-< G - :5 =4) 9 5< =9 ' <D@0:B<B' 9 ;' ;' "9< @<42' 59 :0B' C< <DB:B<B' ;' "9< 2" 2<2"& 42B' 9< = :0B' B ; 24"< "9< 5<4' C?' " =' 0 ,B) < = :0B' 9 0B' 2' " ' 9 5' @ 2" 2<2"40 @ 2N:<5"5' " 00' 2-042B' <5" <B' C4 ' @ 0 2 40 @ 2N:<5"5.' ["' 5' = "9' ; ?' 042B' 4 ; <5&\' 9< " 0B' (:5& ["94"' ' ; <42' " ' <@ G< ' "9< 4A< 42B' ! : 24 ;)\' 2' G< ; C4.' K' C< 55:<B' 9 5' < 0 2' <@ <<F =9 @9' B<@04 <B' "9< " 59' 5042B5' " ' C< 2' 4' 5"4"< ' C0 @>4B<& 42B' A 9 C "<B' 400 @ ; ; < @< ' @ <5A 2B<2@< = "9' "9< ;) " 59' - B5' =< < " ' C< @ 2 5@4"<B' =9< <G< ' "9<?' =< < : 2B& 42B' " 59' 5:C <@"5' ; A 5 2<B) [' ' 94G< <G< ?' <45 2' " ' 9 A<&\' 9< = "<& [' "94"' "9 5' ; <45: < = 00 B<40 4' B<4B0?' C0 =' " ' 2-042B)\' !A4 2& 4A0<5& 0042B& 42B' 400 9 5' "9< ' 400 <5' =< < <N: <B' " ' @ 2 ;)

9< $ 0<5' 94B' 0 2-' 0 ><B' " ' <2@9' 4 B' ' "9< <@ G< ?' ' "9< ' 2B<A<2B<2@<F 42B' "9< 4AA 4@9' ' "9< ' <2@9' 4 ; <5' 00<B' "9< ;' = "9' 9 A<5) 9<5< 9 A<5' 4A 0< 2' " >' @4 < " ' <2@ G 4-<) < = "< " ' ' :@9< " ' 5<2B' 9 ;' / 5@ :5a> F 42B& =9<2' "94"' 9 -9 ; 2B<B' A4" "' < :5<B' " ' 9<4B' 42' 25: <B8 2' = "9 :"' B< 2 "< A0<B-<5 ;' "9< ; A< & -<B' A @04 ; 4" 25' =< < 55:<B' 2' 9 5' 24 ; <) 4A 0< 2' >2<=' "94"' " ' @ ; ; "' 9 "5<0' " ' "9< <5" 4" 2' ' "9< $ 0 59' <A:C0 @' = :0B' 2 "' 20?' 9 "B<' "94"' 400 42@< = "9' "9< 54 ' =9 @9' 9< =45' 4 ; 2-' 4"& C:"' = :0B' 0 2>' "9< 2"< <5"5' ' :5" 4' " ' "9 5< ' :55 4' 42B' $:55 4) < =45' C?' 2 ' ;<425' <45?' 4C :"' "9< 2"<2" 25' ' :5" 4) < 5 @42' < :-<<& $ aa ' B' 8& "9< A< 5 5"<2"' <2< ; ?' ' "9< 5 @42' ; A< & =45' 4"' <224' 2' 4' ; 55 2' ;' "9< 54 & " ' C 2-' 4C :"' 4' <59' @ ; C 24" 2) ' 04 -< 4 " ?' =45' -4"94 2-' 2' 9< ; 4' :2B< ' @9B:>< 94 0<5) 40 @ 4' 4"' "94"' " ; < <D"<2B<B' 2 "9=4 B' " ' "9< :-& 42B' @4 ; < = "9 2' 4' <=' ; 5' %4 54=) 4A 0< 2' 5<2"' 455:42@<5 "94"' 9< = " 0B' 2 "' ; <BB0< = "9' "& < 2-' 4"' "9< 54 ; <" ; < " ' - G< A4 "' ' ! 0<5 4' 2' <D@942-< ' "F C:"' "9< < ' =45' 2 "' 4@@<A"<B) (422<5' 42B' 4G :"' =4 2<B' 9 ;' 2 "' " ' " :5"' "9< $ 0<5& =9 ' =< < B G B<B' C?' <40 :5<5' 42B' A4 "?' A455 25' 45' ' 0B) 9< < =45' 2 ' B :C"& 9 =<G< & "94"' 4B ; 4C0< -9" 2-' ; 4"< 40 =45' " ' B<@04 < "94"' 9< 59 :0B' 2 "' A @04 ;' "9< 2B<A<2B<2@< ' "9< @ :2" ?' :2" 0 "9< $ 0<5' @ 2G 2@<B' 9 ;' ' "9< ' <5 0:" 2' 42B' 4C 0 "?' " ' ; 4 2"4 2' "& C?' A:"" 2-' 4"' 0<45"' & ' ; <2' 2' "9< <0B& -42 5<B' 42B' 9<4B<B' C?' "9< 2 C 0 "?) ' ; <<"' "9< =45"4-< ' 4' = 2"< ' @4 ; A4 -2& 9< @400<B' ' 4' <59' 0<G?' ' & ' @ 25@ A"5' ;' ' 42@<F 42B' 9< B< ; 42B<B' KZ& ' ; <2' ;' ! A4 2' " ' ;' 4' @ A5' ' C5< G4" 2' 2' 42 G<)

9< :55 42' @<5' 4G4 04C0< 4-4 25"' "9< ' <2@9' @ 25 5"<B' ' & ' ; <2' :2B< ' <22 -5<2& 42B' 4C :"' Z & ' :2B< ' :D9 =B<2) <22 -5<2!5 4 ; ?' 4 G<B' 2' "9< 5":04' 2' "9< ; BB0< ' G< ; C< & 42B' @@:A <B' %4 54=F C:"' :D9 =B<2!5 @ :0B' 2 "' 2' "' ' 42 "9< ' ; 2"9) 9< $:55 425' @ :0B' 20?' @ 2" C:"< 4' @ A5' ' 4C :"' KU& ' ; <2& @ ; ; 42B<B

08-"9& 2' '<C :4 7' Y& 9< @9 5< 4' A 5" 2' 4'" $ <:55 5@9 704:& 42B
< <B' C4""0<)' 5' 4 ; 7' =45' C<@ ; 2-'B<; 40 5<B' C7' @<B' ;4 @9<5
2' <" <4"& C:'" 9<@ :0B'@ :2'" 2' 9 5' ; <2J5 5":CC 22<55' 2' -9"F 42B
940'" = :0B' <24C0< (J 5" @NJ5 @ A5& =9 @9' <7' =45' " ? 2-'" '@:'" &" '
< 2' "9< ; 4 2' C B?)

9< @ :2" 7' =45' A<2' 5;B' :2B:04" 2-)' '" 4C :2B5' 2' 04><5& C:'"
"9<7' =< < a<2' 5 ' 94 B' "94'" @4G40 7' @ :0B' ; 42 <:G < G< ' "9<; F 42B
<G< ?"9 2-' =45' @ G< <B' = "9' 52 =)' 9< :55 42' A 5" 2' =45' 2' 9-9'
- :2B& 5" 2-'4-4 25'" 2"40& 4""4@>' C:'" 2 '" =<00 5<@: <B' 2' "9< 42>5)'
"V=45' 0<55' "942' "9 <<' ; 0<5' 2' 8"<2"& 42B' =45' 9<0B' YU& ' ;<2)'
9<" =2' ' ?04:' 0<5' 2' 4' 9 00 =' 4C :'" 940 4 ; 0<" ' "9< 2"F
42B' "9< ' ; @9'-4 2<B' A 55<55 2' ' '" 2' "9<' <G<2 2-' ' "9<' Y"9)' 9<
' <2B' @<5' 2' 2" ' "9< :55 42' A 5" 2' 2' "9<' ; 2 2-' ' "9<' "9'
B B' 2 '" <D@<<B' & ' ; <2)' :-< <4:J5 @ A5' ; <B' "9<' @<2" <& = "9' 2<
' ! :0"J5 B G 5 25' 2' 9 5' -9"& 42B' "9<' "9< ' "= ' 2' 9 5' 0< ")' 9<
:4 B' 42B' "9<' 9<4G7' @4G40 7' =< < 2' <5< G<)' 4G :'" =45' 4AA 4@0 2-'
"9<' 0< '" 042>' ' "9<' :55 425' ; ' 4 "<25"< 2' = "9' KY& ' ; <2F 42B'
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=45' "= ' B4?5J' ; 4 @9' C<9 2B& = 2-'" ' "9<' ; 5@4 4-< ' "9<' B< 5' 5<2"
9 ; ' 2' 642:4 7' K)

4A 0< 2' = 59<B' " ' B G< '" "9<' <2<; ?J5' 4""<2" 2' ; ' 4G :")' <
C<-42' "9<' C4""0<' C7' "9<' 5<a: < ' 4' ; 00' 2<4 ' "9<' :55 42' -9"& 42B'
"9<2' B< <B' :-< <4:J5 @ A5' =4 B)' '" 4BG42@<B' 2' 4' C0 2B 2-'
52 =5" ; & 42B' "9<' 0<4B 2-' C -4B<5' B<A0 ?<BF C:"& 594""< <B' C7' "9<'
< ' "9<' :55 42' -:25& 42B' @94 -<B' C7' @4 40 7& '" =45' B G<2' C4@>'
2' B 5 B< ' = "9' 4' 0 55' ' 2<4 07' 940 ' "5' 5" <2-"9)' <' :55 4; ' 00 =<B'
:A' "9< ' 5:@@<55' C7' 4' @ :2"< 4""4@>& =9 @9' 40; 5'" <4@9<B' "9<' @9: @9m
74 B' =9< < 4A 0< 2' 94B' A04@<B' 9 ; 5<0 & C< < '" =45' <A:05<B' C7' "9<'
9<4G7' @4G40 7)' <42=9 0< 4G :'" =45' ; 4> 2-' A - <55& 4 B<B' C7'
!4 2" 04 <J5 B G 5 2' ' ! :0"J5 @ A5)' <' 5" ; 8' "9</ <<--<C< -<&
2' =9 @9' "9<' :55 42' 0< '" <5"<B& 42B' A:59<B' 2' 2' <4 ' ' "9<' A 5" 2'
4@ 55 "9<' ' <B042B' 4B)' :'" 9 5' A - <55' =45' 4 <5"<B' C7' "9<' 4 G40
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-G<' :A' 940 ' "9<' - :2B' 9<' 94B' = 2F 42B' 9 5' <D94:5"<B' " A5' = :0B'
A C4C07' 94G<' C<<2' G< =9<0; <B' 4'" 2-9" 400& 94B' 2 '" "9<' 4AA 4@9'
' 2<' ' /<?J5 C -4B<5' 2' "9<' :55 42' -9'" @9<@><B' <22-5<2J5
A <A4 4" 25)

4A 0< 2' 94B' 4 0<B' ' "9<' 5'" " ; <' 2' 4' A "@9<B' C4""0<)' 9<
:55 425' 94B' C 2<' :'" =94'" "9<' 9 5" 42' ' "9<' !<G<2' #<4 5J' %4 ' 54 B'
' "9<; & [9<7' @42 '" C<' B< <4"<B& "9<7' ; :5'" C<' > 00<B)\' 9<7' 94B'
0 5'" ; <' "942' 4' "9 B' ' "9< ' 2:; C< & C:'" "9<' ' <2@9' 0 55' =45' 5" 00'
-<4"<)' 4A 0< 2' = "<" ' : @' 2' "9<' @ :5<' "94'" 2-9'" "94'" 9<
; -9'" 2B' '" 2<@<554 7' " ' <@ 55' "9<' 5":04)' <D'" ; 2 2-' 9<' 0<4 2"
" ' 9 5' -<4'" <0 <' "94'" "9<' :55 425' 94B' <" <4"<B& 42B' "9 8' 9<' @ :0B'
@04 ;' 4' G @" ?)' <22-5<2' <00' C4@>' 2' 2-5C<-& A5:"07' C<@4:5<' 9 5

K Y_) / $ ++ < @ . W

4 5" 4 2 [; 2-0<B B<5A4 42B @ 2"< ; A"b 4C :"9<400 <B 4 ; <5 42B "9< A 5A<@"5) <5 -2<B 4 " <4"? A<4@< = 9 $:55 4 642:4 ? E F C :"" =45 2 " 4" <B 4 ; < ; 20C5) 9< <5 : @<4< 9<4" "4 2 %< <B<G "<B " <DA<B " 25 " -?A" 42B ! :"9 ; < @4& 2 A: 5: " A: <0? " 59 2"< <5"5& " "9< - <4" B 5@ 2"<2" "9< 2" 2<2 "$ =< 5) 9< @942-< ; 2 5" ? 4 @9 I7 =9 @9 C :-9" 4 ; 2- " "9< ' < -2 @< 0<B " 4 @942-< '" 2< 42B "9<5:C5" ":" 2 4 B ; C< 8 ^45" =; 4B< <04" 25 ; < @ B 40) 4" @4" 25 2 "9< " <4"? A<4@< =< <D@942-<B 2 A 0 F 42B& 2 6:2< Y& <4" "48 4@@<B<B " "9< 2G<2" 2 4 "<25"< 2& :2B< "4> 2- " A4? 4 5:C5 B? eK& & '" $:55 4 2 "9< @ : 5< "9< ?<4) !9< 94B A ; 5<B 4 <=' B4?5 C< <" 5:C5 B 5< K & ! =<B<5& 42B " 5<2B & " 59 42B 42 G< 42 " A5 " ! " 405 ; B& " C< :2B< "9< B< 5 :5"4G:5& C :" < ; G4C0< < ; A0 ? ; <2" B5<=9< <) :" "9< @942-< 94B @ ; < " 04"<) < "9< ; <2 2 " 425A "5 =< < 4G4 04C0< =9<2 "9< <5 @4 ; < 2" @<F 42B B 4"9@4 " 4 G<B 4" -<2 = "9 & 42 G< 425& "9< 5" 25"40 ; <2" '" <DA<B " 2& 2 6:0? K &) 4 =<<> 4 "< A<4@< 94B C<<2 5 -2<B 4" 05 ")

42a -& <G<2 ; < "942 ! " 405:2B& "9 <4"<2<B 4A 0< 2 5 5<@: "? 2 "9< 5" :04F 42B 9< <5 0G<B " ; 4>< 9 ; 5<0 ; 45"< " C< < @ 2 <0:B 2- 42? 4 ; 5" @< C45<B 2 "9< G @@<55 C0< ; " 9< 5<4) 42B RB 2- "9< @ 45"& 42B 5 =<00 @ G< <B C? 2:2B4" 25 "94" " @ :0B 20? C< 4""4@><B ; " 9< =<5"& " =45 2 " 42 <45? A04@< " " 4><) 0 94B 4 -4 5 2 KZ& ; <2F 42B "9<5 <-< @ A5& =9 @9 @ 25 5"<B ; 4 20? < ; 425 42B $ 0<5 :2B< " 9< @ ; ; 42B (< <CG <& =45 4 2 " ; < ; < "942 U&) 9< A04@< =45 A4 " 400? 2G<5"<B 2 4 @9 KK& C :" "9< ' <2@9 C4""< <5 B B 2 " A<2 < " 00 A 0 ZF 42B " 9<0B :" 42 "9< ; 2"9) 9< B< <2@< @ ; A4 <B 4G : 4C0? = "9 "94" " 9< ; $:55 42 " <55<5F 42B "9<- G< 2=& / 40@> <:"9& <4A<B 04: <05 ; " & " ; :-9 A< 5 2400? 9< 59 =<B 0 ""0< 5> 00 G - :)

" "9< C<- 22 2- A 0 4A 0< 2 59 "<B 9 5 9<5 B N24 "< 5 "A ' 2><25"< 2& " C< 2<4"< " 9 ; 42B 42a -) 9< < 9< <@< G<B "9< 4 ; C4554B 5 "9< !949 42B "9< !"B"5 ; & \ 42B ; <B 5@9< ; <5 4""4@> 2- :55 4 ; "9< 5 :"9) 9< : >5 =< < " C< 2<B C? 4 ; 2" = "9 9 5 40 ; 4" 42 @ A5& 42B =< < " ; 4 @9 2" $ B<B 4& =9< < 455824& =9 %45 2 =@ ; ; 42B 2- "9< U"9 @ A5 2 "9< 4 <%& = :0B ; <<" "9< ;) :" "9< $ "< B B 2 " <0 59 A0425 =9 @9 = :0B C 2- ' <2@9 " A5 2" "" ; 42 "< " ?F 42B "9< : > 59 4 ; C5 554B A0<4B<B =42" 25" :@" 25) 9< " <4"? = "9 $< 5 4 =45 5 -2<B 2 4? ZF 42B ' <2@9 @< 5 =< < 5<2" " <9< 42 " 25" :@" "9< $< 5 425) 2 "9< 4 " =4)

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) 6)) X)) X) KW

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PTU > % + 1 % + & # & I Y

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K Y_ ' # ' ' ! . + 4

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) X)

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K Y ' ' ': . + , 3) ! 8 # ' W
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? ') + ' ') &' ' /&2N; ,3 * , ,' 5#0-0

"22 4' 4C5 "C<B' 2' "9<' ' <2@9' ; A <' 642:4 ?&' K E&' 42B' "9<' $4A4((<-4" 25' = 2<D<B' " ' "9<' > 2-B ;' ' "40?' A 0&' 0 E)' ' =<' <' 9 5' <4 5' 04 B' " ' <5"' C?' "9<' 2G "4" 25' "94"' @4 ;<' ;' $4 5" ' 594 <' 2' "9<' 4AA 4@9 2-' A4 " " 2' ' "9<' : > 59' ; A <)' %9 0<' 4A 0< 2!5' 0<- 25' 9<0B' ! 0<5 4&' "9<' B:@9?' ' %4 54=&' 42B' 40 ;4" 4&' 8 4' @ :0B' <DA<@"' C:"' 5@< " @ 25 B< 4" 2' B"9<' ' 4"' 9 5' 942B5' ' 4" "9 5<' ' "9<' 54 &'=9 ;' 59<' 94B' 2<-0<@"<B' " ' 9<0A' 2' "9<' 5A 2-' 'K Y)' 4G 2-' C ><2' = "9' 2-042B&' "9<' 4C5C: -5' 54% "9<;5<0G<5' :""< 0?' 5 04"<B)' 2<' 5 : @<' ' 9 A<' 40 2<' <;4 2<B 3 " ' " :5"' "9<' 0 ?40"?' 42B' B<G " 2' ' "9<' ' 5" 0(2:;< :5' 5:C <@"5&' "9 :-90?' " ' < ;' "9<' 4B ; 2 5" 4" 2&' 42B' " ' 4 ;' 4-4 25"' 40(@ 2" 2-<2@ <5)

9 5' =45' "9<' 4BG @<' ' !04B 2&' "9<' C 0B' 42B' <20 -9"<2<B' ; 2 5"<' =9 ' "982' 9<>0 "9<' A " 0 ' ' ' < 8' 1 5)' 9<' <5:0"' =45' "9<' B<@ <<' ' 6:2<' W&' K & B< 2-' "9<' 2@ A 4" 2' 2' 4' 24" 240 1 ! B ' ' 40(4C0< C B <B' ;<2' ;' < -9"<<2' " ' "=<2"? G<?<4 5' ' 4-<' =9 ' =<' <' 2 "' 5< G 2-' 2' "9<' <-:04 ' 4 ;?)' 9<' B<@ <<' 4 :5<B' 42' 4 ; :2"' '<2"9:5 45 ;' B ; 5"' :2A4 40<0<B' 2' "9<' 9 5" ?' ' "9<' 4C5C; -' ! "4"<5)' 2' " :"9' "9<' A< A0<' =<' <' =<4 ?' ' 5: <2B< 5' " ' 4A 0< 2&' 42B' @94 <B' :2B<' "9<' C: B<25' ; A 5<B' C?' "9<' 2" 2<2"40 !?5"<;' 9<?' "9< <' <-04B0?' 425=<' <B' "9<' 5:;;25F' 42B' "9<' 'a<5"' ';0 "4 ?' 5< G@<' =45' 9< -9"<2<B' C?' "9<' 2<=5' ' "9<' ' <2@9' B 545"<' 4"' 4?0<2)

4A 0< 2' =45' 4"' 5" A< A0<D<B' C?' :5" 4J5' 4@" 2)' % "9' 9 5' :5:40(A 2<2<55' " ' <D4--< 4"<' "9<' ; A "42@<' ' ; 4"< 40(-4 25&' 9<' 4 0<B' " ' 5<<' =9?' "9<' A042' ' 4' 2"' A4 " " 2' ' : ><?' 59 :0B' 2 "' C 2-' "9<' 4C5C: -' $ =<' =9 00?' " ' 9 5' 5 B<)' 9<' <4 "<' 9<' B<@ B<B' N: "<' @ <@"0?' "94"' "5' 4 ;4;<2"5 =<' <' B:<' 5 0<0?' " ' <4)' #<"' 9<' B B' 2 "9 2-' " ' 4004?' :5" 42' 404 ;5)' 2' :-:5"' K & 4"' "9<' 5"' <@<Am " 2' ' "9<' B A0 ;4" @' @ @0<' 9<0B' 4 "<' 9 5' <": 2' ;' 4? 22<&' 9<' <A 4@9<B' <"";' @9' = "9' :5" 4J5' 4 ;4;<2"5& 455< " 2-' "94"' "9<?' ;:5"' C<' 5<"' 2' "' <"9<' " ' 4""4@>' ' " ' 2" ; B4"<' ' 42@<F' "94"' 9<' 4A 0< 2E = :0B' <" "' C?' 4 ;2-' " <' 2 <B< 4" 2' ' "9<' 9 2<' 42B' C<- 22 2-' 4' =4 ' =9 @9' = :0B' C<' =4 ' " ' "9<' B<4"9)' 9<' A <5<2"' @ 2B:@"' ' :5" 4' = :0B' 2B:@<' "9<' ; A<' ' :55 4' " ' B<@04 <' "94"' "9 5<' 4 ;4;<2"5 ;:5"' @<45<F' 42B&' 9<' 4BB<B&' ' :55 4' C<@4;<' "9<' 4 C "<' 2' "9 5' ; 4"" <&' [' ' = 00' 2' 0 2-<' 4B ;"' ? 2' " ' "9<' :": <' 5<""0<;<2"' ' ;42?' N:<5" 25' 2' =9 @9' ? :' 4' <' 2"< <5"<B)\' 9 5' < < <2@<' " ' "9<' 45"<' 2' c:<5" 2&' :""< <B' 2' A <5<2@<' ' "9<' : > 59' 4 ;C4554B &' 404 ;<B' <G< ? 2<' 42B' <4@"<B' :2 4G : 4C0?' 2' "9<' : 5<)' 9<' C4B' ;A <55 2' "9:5@4:5<B' =45' 2 "' <;G<B' <G<2' C?' 4' <2B0?' <DA0424" 2' =9 @9' 9<' A G4"<0?' 4@@ B<B' " ' <""<;@9' "<2' B4?5' 04"<)' <" 4B<' ' :-:5"' KU' =45' <;<;C< <B' 45' 4' 2 " :5' 25"42@<' ' 4A 0< 2!5' 2< 4B @4C0<' C 45' 2' 4G :' ' A9?5@40(@ ;A:05 2)' 4' ;;"40(@94 4@"< 5" @' ' 9 5' =45' =<00 B<5@ C<B' C?' 05" &' :55 42' 4;C45m 54B ' 4"' $4 5&' 2' 9 5' B<5A4"@9' ' :-:5"' Y' " ' 9 5' ;45"<' 'M b' "' 5' 20?' @ 2B:@"' "94"' 5'5 ;A0<' 42B' A<2' C:"' ;' 42B' <5 0:"<&' 42B' "94"' <5"5 2

_ 4 ! ,) 8> % + , , ! , KY

4B<N:4"< ; 0"4 ? @<& =9 @9 945 42?< <@" 2 " 5 5 G<8 -2) G< ? @ 2@<55 2 C<-<"5 2 9 ; "9< B<5 < : "9< @ 2@<55 25)\ 9< : "* <224 94B B 5@< 2<B "9< 54 ; < " :"9) 2B<<B& :2B< " @ A <55: < 4A 0< 2J5 5:A < ; 4@?& "9< 5"4"<5 ; <2 ! " $<"< 5C": - 2 = 54= "9< 2<8 54 <- :4 B 2- "9< 2"< <5"5 "9< 20? !"4"< "94" 5" B C<"=<<2 "9< ; 42B "9<@ 2N:< "9< %<5") 9< A 0@? C4042@< ; 4 2"4 2<B C? 0<D42B< = 9 5 ; :@9 5> 00 4" : " =45 C : " "9< <DA <55 2 4 " :"9 "9< ; A "42@< =9 @9 94B 40 <4B? C<<2 <@ - 2 8 C? <G< ? 2"<00 -<2" B A0 ; 4" 5" 2 "9< 2" 2<2") 0 < :" ; 5" 0<2-"9 " =9 @9 "9< 54 = :0B - 2 "9< =4? @ < @ 2- :5" 4 =45 4 5:--<5" 2 =9 @9 9< ; 4B< 2 4 B<5A4"@9 ! <A"< ; C< U " / : 4> 2& 9 5 4 ; C4554B 4" "94" : "& 45 " "9< 4BG 54C 0 "? 9< < ; 4 2 2- 4 A455 G< 5A<@"4" "9< =4 2 ! A4 2F "9< = 5< 4A 0< 2 ; -9" B<@ B< " 00 :A A "9< 4C5C: -5 C< <2"< 2- 2 "9< $<2 25:04 %4) [9< < = 00 40=4?5 C< " ; <&\ 9< 4BB<B& [" 4B A" 4 "< =4 B5 "9< @ : 5< "94" @ @: ; 5"42@<5 = 00 "9<2 5:--<5") ? 00 = 2- "9 5 0 2< @ 2B:@"& :5" 4 = :0B 54G< ; < "9< A4 2 0 2<@<55 "? "4> 2- BB<5 4-4 25" 9< & 4 ; C :2B " "94" @ : 5< 20? =9<2 59< 5940 4""4@>)\ " = :0B C< B @:0" " :B-< ; "9 5 042-:4-< =9<"9< 0<D42B< =45 42 400? 4A 0< 2 ' 42@ 5)

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2 _ ! , # 3 $ + Y

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)A)%)8 ; + + (% ? !

9< A =< 5 ; :5 C< 4@@ B<B " < 2 @9 ' <B @9 / 4 0 ' < 9< G ; : 2B aN ; ! "< 2 KYUY K KE) 9< 5@ 2 42 0B 4 ; 0? ; A< 4 / 2 -9"5 2 "9< G400<? "9< (492 9< <4 0? 59 =<B 5 -25 4 5" 8 A 4@" @40 @4A4@ "? 4 2 <D@<55 "9< 4G< 4 -< 9 5 @0455) "9< 2 G< 5 "? "" 2 -<2 9< 0<4 2 " 4AA <@ 4"< "9< ; < "5 " 59 25" ": " 25 42B A C4C0? =45 "9< 5": B? "9< ; & 45 =<00 45 "9< 5"< 20? A 5 " G< C<2" 9 5 24": <& "94" 2"<25 <B 9 5 B 5"45"< "9< A<B4 E" <5 "9< ; A< 40 : "5& 4 ; B5" =9 @9 9 5 0 =45 5 : C5<N : <2"0? @45") 2 KY "9< 4 ; < ' <B< @>" 9< <4" 2B : @<B 9 ; " " <2 "< "9< $: 55 42 5< G @<F 42B 5 ; < ?<4 5 9< 5< G<B 2 "9< 4B ; 2 5" 4" 2 ; 2<5 42B ; 42 : 4@" : <5 2 "9< / 2 -5 %<5"A940 42 042B5) B A0 ; 4" @ ; 55 2 " 4 2a 2 KY U 42B " 4G<05 2 2 -042B 2 KY Y <D"<2B<B 9 5 >2 =0<B -< ; <2 42B 4 4 5F C : " =45 2 " : 2" 0 "9< ?<4 K Z "94" 9< 9<0B @< 4" < 0 2 45 2 5"< " ! "4"< 4B<) 2 "9 5 A 5 " 2 9< ; 0? = "95" B "9< B<- 4B 2 - C < 8 A 0 @? 4 : - = 8 C : " : 2B 400 5" : - -0<5 4-4 25" "9=4 "<B C? "9< 4C 2<") "< "9< B 545"< 4" 6<24& =9<2 4 : - = "a =45 5 : < 2 - ; 4 594 A 4""4@> - : "& "9< / 2 - < <B" ! "< 2 "9<A " 0 ' < -2 1 5F C : " ! "< 2 B<@0 2<B 2 "9< - : 2B 9 5 2@ ; A<"<2@< "9< A 5 " 2 42B 9 5 B<5 <" 5<< 4 @942 -< 5?5"< ;) 2 <40 "? 9< = 59<B " 5<< "9< 4AA 2" ; <2" 4 B<2C< -& "9< ; 5" : "5A ><2 AA 2<2" ' 42@<& 42B "9< @ ; A0<"< 4C 0 " 2 "9< <5A 25 C0< 4C 2<") 2 G4 2 B B "9< / 2 - A A 5< 4 @ ; A ; 5< 2 "9< 04""< A 2" ; B A< 5 5" 2 9 5 <D@0 : 5 2 B B<2C< -) ! "< 2 =45 <N : 400? C5" 24"< 42B 5 ; <=94" G< 5"<AA<B "9< C : 2B5 <" N : <""< 2 9 5 0<""< 5 " "9< / 2 -) ' 9400? ' <B< @> % 00 4 ; & 59 "0? C< <" 9< 9 : <B <" <4" "9< ?B 4 ; 0? ; / 2 -5C< - " < ; <0& B 5 ; 55<B 9 ; & 4BB 2 - "94" 9< =45 [4 < 4@" ?& 25 0<2"& C5" 24"<& 42B B 5 C<B <2" @ 40& =9 & A : B 9 5 -<2 : 5 42B "40<2"5& 4 ; <-4 B 2 - "9< - B "9< ! "4"<& - : B<B< A4 "0? C? @4A @<& 4@"5 ; A455 2 42B ; A< 5 240 94" 8 42B 42@ : \ 642 : 4 ? &K YE) ' 4 " ; < ! "< 2 A455<B 2" <" < ; <2") 2 "9< ; 2"9 A 0& K Y& ' <B< @> % 00 4 ; =45 @ 25" 4 2<B " <2" : 5" " 4 B<2C< - "9< ; 2 5" ? ' < -2 4 5& = "9 A =< 5 =9 @9 <594B =<B "9 5< 4 @9 < 4 <5A 25 C0< 4C 2<") %9<2 "9< 2<- " 4" 25 4" 05 " C842& 4A 0< 2 < : 5<B " 28 " 4"<" 9 : -9 4 B<2C< -& 2 "9< - : 2B "94" 9< =45 4 42 G< 42 42B G< ? 2 -0 59 2 5? ; A4"9?F 9< 405 24 ; <B ! "< 2 4 ; 2 - "9< "9 << ; <2 =9 ; 9< = : 0B -04B0? 5<< 2 "9< $: 55 42 2 5" ?) ! ; < " ; < <04A5<B C< < ' <B< @> % 00 4 ; C F-9" 9 ; 5<0 " < " ! "< 2 "9< ; 2 5" ? 20< 4 5F C : "& "942>5 " <2B0? ; <B 4" 2& "9< C4 2 <5 : ; <B @< = "9 <D"<25 G< A =< 5 2 @" C< Z& K Y)

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K Y 2_ 0 , " +! = . K

@@ : A4" 25 42B 4@ 0 "4"<B "9< 5< 4 A<4542" " "9< @ " a<2 @0455 42B <G<2 " "94" "9< 2 C0<5)

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/) X)

Z ' 3 ' ! % 70 Y *

=< <'5 : C <@"<B' " ' "9<' 5 : A< G 5 2' ' 4' "4D' 4B ; 2 5" 4" (=9 5<' = 00 =45
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G 004 - <5' = "9' ; <' "942' ' 294C "42"5)' " a<25' =< <' 2 =' <N : <B'
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4AA 2"<B' ; B<' A4 2' ' 4' 2<)' 9<' <0<@"<B' - G< 2 2 -' C B?' %45
"9< k<4 "<' " ' @ 25 5"' ' 4' A4 B' C : - ; 45"< (A4 B' @ : 2@ 00 5(42B' ; A4 B'
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4@@ B<B' " ' "9<' " =25)' 0 <4B?' "9<' 5< a : <' ' 2<' ' 9 5' 0<"" < 5' C?' 4

K 1 K _ S 9 K ! + 6 ! ?% 8 ! %
QQQ? b))))))))))))))))))))))))))))))))))))))) (8)))))))))))))))))))))))))
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K W_ H4 * % . K) . , ; 3 +' ZW

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K W_ $, J + 6)

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CHAPTER XIII.

THE CONTINENTAL SYSTEM.

THE promulgation of the Berlin Decree against British commerce was one of those dramatic strokes by which Napoleon sought to double the effect of his actions. The popular imagination was awed by the suddenness with which the conqueror turned aside from the task of completing the ruin of Prussia in order to launch his thunderbolt against the hitherto unassailable islanders, and to launch it, too, from the capital of Frederick the Great. In Napoleon's career the element of the melodramatic frequently obtrudes itself; but those who have observed the workings of his statecraft over a long term of years know that the stage thunder is but the climax in a carefully prepared situation, when the minds of all observers are in a state of tense expectancy. It is no exaggeration to say that the Berlin Decree of November, 1806, was the climax towards which Napoleon's policy had long been working on one of its best-marked lines. His power as a statesman lay in his skill in adapting to present needs the most practical among the ideas and theories woven by the brains of the former generation; and the events already described enabled him now to apply them to a large part of the Continent of Europe. The Berlin Decree constitutes, perhaps, the highest example of a union of the practical and theatrical in statecraft. Overwhelmed by the suddenness of the blow, contemporaries could not see that it was but the outcome of thoughts and efforts, whose beginnings had long been observable. Briefly stated, the idea which took form in the Berlin Decree was to subject Great Britain to complete commercial isolation from the Continent in order to compel her to surrender at discretion. But this idea was by no means new. It had its beginning in the Mercantilist theory of commerce, in the teachings of Rousseau on national solidarity, and in the speculations of the Physiocrats.

It is impossible here to trace in detail the development of these ideas from the time of their inception down to the revolutionary era, when some, at least, became political actualities. Some general remarks only can be made. French statesmen who thought about the wider interests of commerce belonged with scarcely an exception to the

Mercantilist school. From the time of Colbert to that of Vergennes, the greatest statesman was he who could increase the internal resources of France, and set her free from all dependence on the foreigner. Turgot alone swerved aside of set purpose in the direction of freer trade with foreigners; and his action was speedily reversed. In concluding a treaty of commerce with Great Britain in 1786, Calonne and Vergennes were probably influenced solely by the belief that moderate duties would bring in a larger revenue than the prohibitive duties formerly imposed; and that treaty cannot be looked on as a triumph of Free Trade principles in France. The rebound towards the older fiscal methods in and after 1792 was overpoweringly strong; and, after the outbreak of war in February, 1793, public men of all shades of thought were ready to adopt any conceivable means in order to ruin British commerce.

The political theories of the age previous to the Revolution also served to convince the thinkers of France that the struggle with Great Britain would be easily won. The perfect State, according to Rousseau, was one that sufficed for all its needs and could do without foreign trade. The ideal commonwealth was "that which can subsist without other nations, and without which every other nation can subsist." Subsequent events emphasised the contrast here implied between the life of a self-sufficing agricultural community and that of a commercial State such as Britain or Holland. The agrarian reforms of the French Revolution tended to make France more self-sufficing, while Great Britain, under Pitt's able guidance, was fast becoming the purveyor of the world.

The lesson taught by Rousseau in regard to ethics and legislation had also been set forth by the Physiocrats in the sphere of economic theory. The teachings of Quesnay and of his followers rested on the assumption that the only true source of national wealth was the land, and that States would prosper in proportion as they developed agriculture and raw materials. Manufactures might be productive of refinement and utility, but could not add to the stock of national wealth, inasmuch as they did but change the form of existing material. Agriculture alone, therefore, was capable of producing a clear gain to the community; manufactures could not yield it, for they were "sterile." These views had no small influence on the leaders of thought in France before the Revolution.

As a result of these three diverse influences, there was a general tendency in 1789–93 to exalt agriculture and depreciate commerce. It was helped on by the cult of Lycurgus, to which Saint-Just gave so much vogue. It was probably the appeals to the legendary life of Sparta that were most effective among the militant Jacobins who came to power in 1793; but the speeches of members of the Convention contain many passages which show that England was not only hated as the abode of corrupting commerce, but also despised on the ground of economic and political unsoundness. Some even of the Girondins

trading relations. On the renewal of war in 1803 the First Consul seized Hanover, and sought to control Hamburg. After the failure of his schemes for the invasion of England and his triumph over Austria at Austerlitz, he recurred to the plan of controlling northern Germany. By skilfully offering Hanover to the Court of Berlin, he sought to range Prussia under what he now termed his "coast-system." The experiment of bribing Prussia to take his side having failed, he used force against her in order to ensure the same result. As a victor he launched from Berlin the famous Decree soon to be described in detail. The reappearance of Russia in the field afforded him still wider opportunities; and the Peace of Tilsit gave him the prospect of arraying against the mistress of the seas forces vaster by far than had ever entered into the conceptions of the men of 1793. Yet, in reality, the Continental System existed in embryo in the minds of the Anglophobes of the Convention; and the Napoleonic Empire of the years 1810–12 was, in a sense, only an index of the strength of the ideas which have been briefly set forth.

The political and military events of the years 1805–6, which led up to the Berlin Decree, having been already described in previous chapters of this volume, it is needful only to glance at a few of the accompanying incidents which show the trend of Napoleon's policy. The importance which he attached to the coasts of the North Sea is seen in his determination to control Holland at all costs, in the speed with which, after the outbreak of war, he overran Hanover, and in the means that he adopted for the coercion of the Hanse Towns. On every occasion when Prussia put in a claim for those cities during the bargainings of the years 1805–6, it was set aside. The conditions which he attached to his offer of Hanover to that Power at the time of the discussions at Schönbrunn (December, 1805) point in the same direction. He insisted that, if Prussia acquired that electorate, she must exclude British commerce from all her lands. In vain did Frederick William III seek to escape from the cruel alternative of war with Napoleon or war with England. On April 1, 1806, he reluctantly issued an ordinance which excluded British ships from the ports of Prussia and Hanover.

In point of fact this, rather than the Berlin Decree, was the event which definitely inaugurated the Continental System. It is true that Napoleon had already compelled neutral States to exclude British commerce—for instance, in the Treaty of Florence with the kingdom of Naples (March 28, 1801); but the present was the first occasion on which a great Power bent beneath the pressure of his commercial policy. The consequences were immediate and far-reaching. The Grenville-Fox Ministry at once placed an embargo on some 400 Prussian ships then in British harbours, declared the coasts from the Elbe to the Ems to be in a state of blockade (April 8, 1806), and thirteen days later launched a

declaration of war against Prussia. An Order in Council of May 16, however, declared that the ports of the north-west of Germany and of Holland would not be closed to neutral ships, provided that they had not come from, or were not sailing to, one of the enemy's ports, and carried none of his goods and no contraband of war. Only on the coast between Ostend and the mouth of the Seine would the blockade be strictly enforced. On May 21 the British Government further declared that it would stop no ship in the Baltic Sea; and on September 25 it threw open the navigation between the Ems and the Elbe. Evidently it was the intention of the British Government, while upholding its rights, to subject neutrals to as little inconvenience as possible. The causes of friction between the United States and France and England having been discussed in a previous volume of this work, they need not be further referred to here.

Such was the state of affairs when, on November 21, 1806, Napoleon launched his Berlin Decree. The preamble stated that, whereas Great Britain did not recognise International Law as observed by civilised nations, but extended her hostilities to ships engaged in commerce, to peaceful individuals, and to their property on board merchant ships, and declared coasts to be blockaded on which she had not a single war-ship—measures which aimed at ruining the world's commerce to the advantage of her own—therefore Napoleon had resolved to apply against her the measures of her own maritime code. Accordingly he declared the British Isles to be in a state of blockade, and prohibited all commerce and correspondence with them. All British subjects found in any country occupied by French or allied troops were liable to imprisonment, their merchandise and property being also considered lawful prize. Half the proceeds of such acts of confiscation were to be used to indemnify merchants for losses sustained through captures made by British cruisers. The Decree further declared that no ship coming from Great Britain or her colonies would be received in French or allied ports, and ordered the confiscation of ship and cargo whenever false statements were made on this head. The Decree was communicated at once to the Governments of Spain, Naples, Holland, and Etruria, and its adoption was expected as a sign of friendship to Napoleon; while every Government that made peace with him was thenceforth expected to comply with this and the later enactments of his Continental System.

The British Government, seeing in this Decree a deliberate attempt to cut off British trade with the Continent, retaliated by the Order in Council of January 7, 1807. The preamble stated that, whereas the French Government, in violation of the usages of war, sought to prohibit the commerce of all neutral nations with Great Britain and the acceptance of her merchandise by them, His Majesty would be justified in enforcing a similar prohibition of all commerce with France. He would, however, restrict the retaliation, and accordingly ordered that no vessel

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2B - & 42B& A< 0 ; A5& @ """ 2& " 'B:' = "9 :"' ; A "5' '"9 5< 4 " @0<5F
42B' : A< = :0B' 2 '0 8 '2<<B' " 4B< = "9' :-9 ; B' 42B' "9<@ 0 2 <5)
9<2& " 22 2-' " '"9< ; 42:1@": < 5& 9< C04 ; <B' "9< ; ' ' ; 4> 2-' " '
; 42?- B5' 42B' 4"" " '9 -9' 4' A @<& 9<?' 94B' ' 42@<& "40?& 6< ; 42?&
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"9<?' A4 B' 4""<2" R ; ' " ' "9< B< ; 4 8) 5' ' 2-042B& B < = :0B' 5 2'
C< C5 ; > :A") :5" 4' =45' 4@": 400?' 25 0G<2"& 42B' :5 4' =45' 00 = 2-'
9< ' 2' "94"' A4"9& ' 42@< 40 2< 94B' 5" <5' 'C:00 2' 2' "9< 42>) 9<
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@ 25: ; < 3H4 2 " 2' 45' ; 5"4><2' 45' 9 5' 5: --<5" 2' "94"' "9<@ 2 5@4" 2'
'"9 5< A B:@"5' = :0B' C< 4' - B' =4?' ' <A0<2 59 2-' "9< @ < 5' '
$:55 4& %<5"A940 4& 42B' 4A0<5)

9< @ : 5< ' <G<2"5' =45' " ' A G< "94"' 2 "9 2-' @ :0B' 594><' 9 5'
C<0 < ' 2' "9< < @4@?' '"9<5< 5: @ B40 B<G @<5) !"4"< 4 "< ' !"4"< %45
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=9 & 2' "9< ' B ; 4 25' '"9 :-9"& 52<< <B' 4"' ' <' 9 ; 5<0 '
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5" <2-"9' '? :"9' 42B' =< < @ 22<@" 2-' 400 A4 "5' '"9< = 0B' C?' 2'
B 55 0: < " <5F =94"' 9< C<9<0B' =45' 4' ; 4-< @ 2 : <B' :A' C?' 9 5' G G B'
42@?' 42B' C :2B0<55 <- " 5 ;)

4G 2-' <G <=<B' "9< @4:5<5' "94"' B<"< ; 2<B' "9< 240 9 58"?'
'"9< A< A0<5' '"9< 2 "9' 42B' @<2" < ' : A<" ' 4A 0< 2J5 A 0@?&
=< ; 4?' 2 =' -042@< C < 0?' 4"' "9< 2 0:<2@< <D< "<B' C?' "9< @ ; C4"42"5
2' @< "4 2' A 2"5' 2' "9< 2-< '"9< 4A 0< 2@ 5?5"< ;) %9 0< "9<
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@ ; ; < @ 40 =4 4 < = "9' 2-042B& 9< ' < @2 "5 7 ' 2<@ 454 0?' @ 2 2<B'
" ' "9< 5<4C 4 B' 42B' " ' @< "4 2' :"0? 2-' A4 "5' ' : A<) !9< 4@"<B

W

' "

' ' ' $!& ' !% ^ ( )

"A B <B< < ' 2 4 - : 5"& K & "94" " =45 9 5 A 0 @?" ' - G< 2 ; <2 45 " < ; 4 "? = 59<B " ' C< - G< 2<B) [' " 5&\' 9< 54 B& ['C?" : 2 2 - 4"9 0 @ 094 " ' 2 59<B "9< =5: ' 2 "9< <2B <F C?" : 2 2 - ' :55 : 0 ; 42 "94 " ' <5"4C0 59<B ; ?5<0 ' 2 - ?A"F C?" : 2 2 - 0" 4 ; 2"42< ' "94 " ' = 2 "9<) "40 42 ; 2B) ' ' - G< 2<B 4 A< A0< ' 6<=5 ' = : 0B F <C : 0B "9< "<24A0< ' ! 0 ; 2) ! & " & ' = : 0B 5A<4> '0 C< "? 2 "9< << A4 " ' !42 ; 2 - & = 9 0< ' = : 0B @ 2 ; ' 504G< ? 2 "9< " < B<) ; C 2 42B 2 "94 " A4 " ' !5 2 ; 2 - ' = 9< < 504G< ? 2 =' <D 5"5)\' ! : @9 0<D C 0 "? =45 : 2B : C"<B0? 4 54 < ' <@ A< ' < ; A < "942 "9< - B A A4 - 42B4 ' "9< <G 0 : " 2) B ; 2 5" 4" 2 ; 5" C< 4B4A"<B " ' ; <2 5 2<<B5F 5 ; B "9<5< 2 " : 2 4 < 594A<B C?' @0 ; 4"< 0 @40 "?& 42B 9 5" @ @<5) ' - B 4B ; 2 5" 4" 2 B <5 2 " <DA<@" "9< ! : 4@< ' 9 : ; 42 "? " ' C< <8 4 F " <DA<@"5 " " ' C< <- : 04 & 42B - <2"0? "5 "5<0 ' 2" ' "9< 2B<2"4" 25& "28" 2 - ' " ' " ; < 42B 5 ; < A4" <2" A @<55 ' @" 2 " ' A042< B = 2 : 2@ ; "4C0< 42 - 0<5) " 945 D<B A 2@ A0<5& [5 C : " " 4AA0 <5 "9< ; ' = "9 @94 "4C0< ; B @4" A24 " 5 = <0$ 25" @"<B& : 5"& A : < 942B<B) " 945 "5 A <55 28 @ B< ' 9 2 : & ' = 9 @9 " 5 A : B) 9<@>5 42B @ : 2"< @9<@>5 B ' 2 " C5" : @" "5 @<0< "?) " 945 "9< @ : 4- < ' "5 A 2 25 42B 5" ><5 94 B 4 " =45"<& 2< @ <2@?& ' 42B 0B 4C : 5<5) " 5 5< G<B C?' <G< ?' G4 <"?' ' " 4 2<B 42B "<@9 2 "8' X<DA< <2@<) " 5 2< "9< ' 4B "8& 2 ' @ 25< G4" G<& C : " >2 =5 = 9 8 ' " ' C< "9< 2<& 42B =9<2 "9< "9<) ' C : 0B : A 42 B<40 C : <4 : @ 4@?' @4A4C0< ' - G< 2 2 - < - 2 A< A0<5& C "9 : A<42 42B @ 0 : <B& 2 5 : @9 4 =4? 45 " ' @ ; ; 42B "9< ' @ 2 B<2@< 42B <5A<@"& 5 2 ' <4N ' "45>) " 4 - : <5 4 9 - 9 5"42B4 B ' A : C0 @ ; 405& 4 A455 2 ' A : C0 @ ; A G< ; <2"& 4 @ A : 5 <N : A ; <2" ' "4@"& 42 <45? - 2 - - B 9 : ; : @ : A0<B = "9 5" " 4""<2" 2 " ' B<"4 0& 42 25" 2@" =9 @9 ; 4? C< @400<B A A4 - 42B 5" 2 "9< A4 " ' "9< - G< 2 2 - 24" 2& 42B 4 <4B 2<55 " ' 0<4 2 42B C< - : B<B 2 "9< A4 " ' "9< - G< 2<B) ! : @9 4 @ 2 B<2@< ' 94AA? N : 40 " <5 5 2<@<554 0? "9< <5 : 0" ' @ ; A0<D @<5& 42B @422 " C< @ 2" G<B C? 42? 2< ; 2B)

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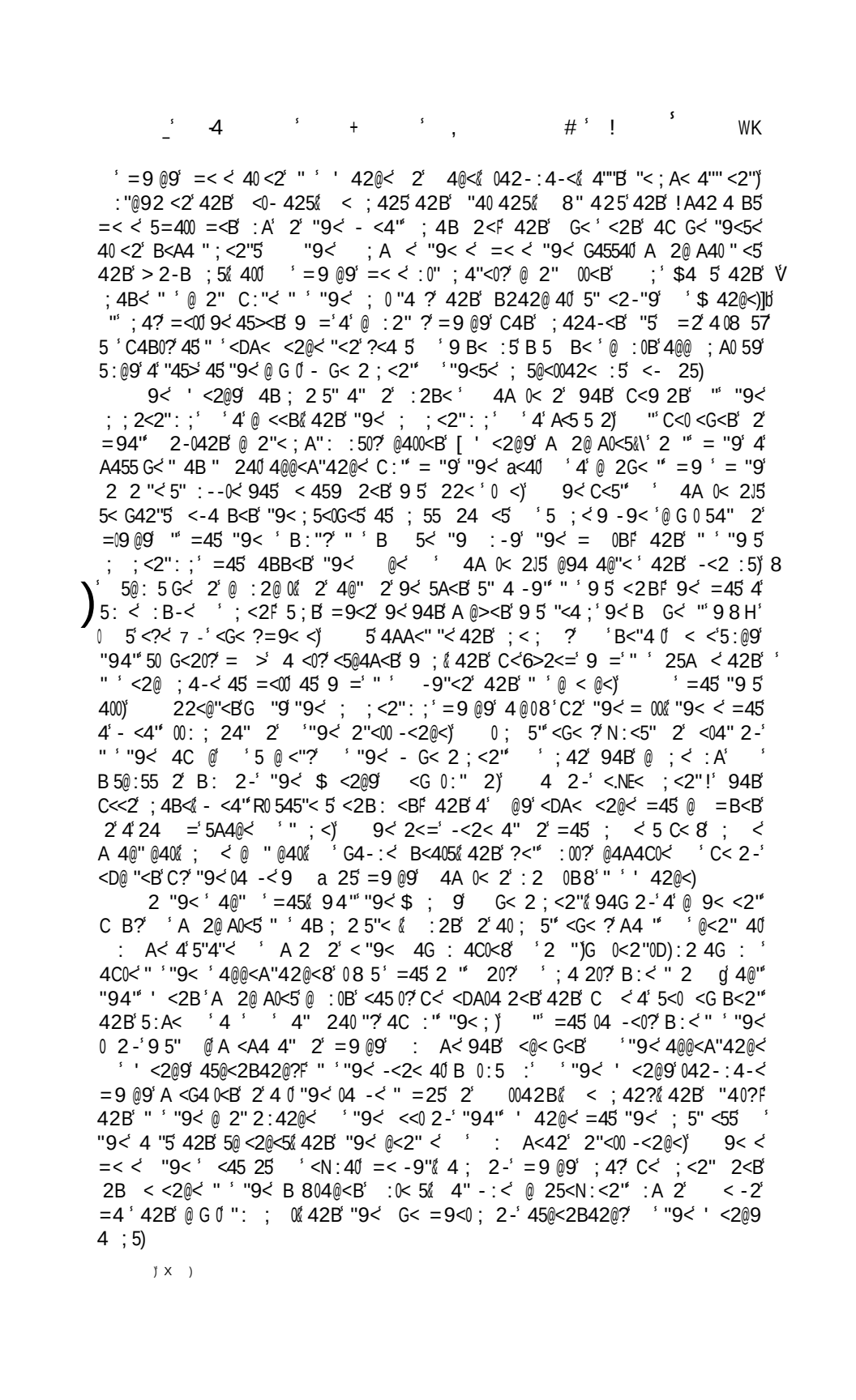

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2' @" C<' Y& K Y& 4' 5<@ <'" " <4"?' =45' 5 -2<B' = "9' !A4 2' 4'" ' 2"4 2<C0<4 :& 2' G ": <' ' =9 @9' "9< 9< ' ' 4 < (: 5< =45' " ' 5 ; <2B< ' :5@42?' ' 4' A 2@ A40 "?' 2' $ ": -40)' %0 <2' 400' 94B' C<<2' 5<""0<B& "9< c :<<2' <-<2'" =45' 2 ; <B' "94'" 59< 94B' @<45<B' " ' < -2& "94'" 59< ; :5" A4@>' :A' 9< ' - B5' 42B' 5A<2B' "9< <5'" ' 9< ' 0 < 45' 4' A<25 2< ' 42B' 42' <D 0<)' 2' 4?' & K & :5@42?' =45' :2 "<B' " ' ' 42@<& <@< G 2-' "9 <<' A04@<5' 2' "9<' !<24"<' 42B' "=<0G<' 2' "9<' (<- 504" G< B?)' 2' "9<' ; <42" ; <' 42' D" 4 B 24 ?' 6 : 2"4' 94B' C<<2' 4AA 2"<B' " ' -42 5<' "9< @ :2" ?)' '" =45' 9<4B<B' C?' <2< 40' <2 :& 42B' @ 2"4 2<B' 4 ; 2-' "5' 2 : ; C< 5 94C42&"9<' <DA< <2@<B' A < <@'" ' :55<05& B0 :@9?& "9<' 242@ < & B<' > 42B & 5 0B < & A9 0 5 A9< & 4B ; 2 5" 4" & 42B' A9 042"9 A 5"& 42B' 4' ? :2 -' $ <B ; 2"<5<' 24 ; <B' <54 < 40C & =9 ' =45' B<5" 2<B' " ' ; 4>< 4' ; 4 >' 2' "9<' 422405' "40?)' '" =45' <DA04 2<B' "94'" "9<' C <@'" ' "9<' 422<D4" 2' =45' " ' <D"<2B' "9<' ' <2@9' @ 45"5& " ' 4 B' 24G40' <@ : " 2-& 42B' " ' <24C0<' 4' ; 0 "4 ?' A '" :A 2' "9<' 5@40<' ' :0 2' " ' C<' @ 25" :@"<B' 4'" !A<a 4)

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' 400' "9<' "40 42' !"4"<5& :5@42?' 94B' 0<45'" " ' -4 2' 42B' ; 5'" " ' 0 5<' C?' "9<' ; A 5 " 2' ' "9<' ' <2@9' 5?5"< ;)' < ' : B @ 40' 5?5"< ; ' 94B' C<<2' <D@<00<2"& 9< ' A<240' 04=' ; 0B' 42B' 9 : ; 42<' 2' @ ; A4 5 2' = "9' "94'" =9 @9' 59<' =45' 2 =' @ ; A<00<B' " ' <@< G<)' &! 9<' 94B' 40 <4B?' - =2' :'"

Z ‘ ‘ ‘ ‘ ‘ ! ‘" ‘ I

<: B40 5 ; ‘ 42B‘ < ; <B‘ 9< ‘ ; 245"< <5F 42B&"9 : -9‘ 9< ‘ 4B ; 2 5" 4" 2‘ =45‘ R* ; A0<D‘ 42B‘ 5" 00‘ C <‘ <G B<2@<‘ " <‘ 9 5" @‘ B : 40 5 ; ‘ C<"=<<2‘ '0 <2@<‘ 42B‘ ! <22& "‘ =45‘ "9<‘ A B : @"‘ ‘ 42‘ 2"<00 -<2"‘ 4@<‘ G< 5<B‘ 2‘ "9<‘ 4 "5‘ ‘ ; 424-< ; <2")‘ 9<‘ ' 4 @9‘ ; A G<B‘ "9<‘ 4=‘ ‘ ; "-4-<& <2@ : 4-<B‘ "9<‘ @ : 0" G4" 2‘ ‘ @ "" 2& 9<0A<B‘ "9<‘ = 00<2‘ ; 42 : 4@" : < 5& 04""< <B‘ "9<‘ : 2 G< 5 " <5F 42B&C?‘ 4C 959 2-‘ <0 - : 5‘ @ 2- <-4" 25& <24C0<B‘ "9<‘ B<C"‘ " ‘ C<‘ 0 N : B4"<B)‘ : "‘ "9<‘ ; 5"‘ @ G 0 5<B‘ A<45429?‘ 2‘ : A<‘ 0 4"9<B‘ "9<‘ @ : B<‘ C4 C4 "?‘ ‘ "9<‘ @ 25@ A" 2F 42B‘ 40‘ "9<‘ C<2< "5‘ ‘ ' <2@9‘ : 0<‘ @ : 0B‘ 2A"‘ < 4@<‘ "9<‘ <5<2" ; <2"‘ =9 @9‘ "9<‘ ; 0 "4 ?‘ A 0 @?‘ ‘ 4A 0< 2‘ 4 : 5<B‘ 2‘ "9<‘ : 5@42‘ ; 2B)‘

9<‘ "< ; A 40‘ A =<‘ ‘ "9<‘ $4A4@?‘ 94B‘ 0 2-‘ 4AA<4 <B‘ " ‘ 4A 0< 2‘) ER8" ‘ C<‘ 42 ; 40 : 5‘ 42B‘ 2@ 2G<2 <2"F 42B‘ 2‘ 9 5‘ 8‘ "40 42‘ @4 ; A4 -2‘ 9<‘ 94B‘ <2 @<B‘ "9<‘ @<55 2‘ ‘ "9<‘ 8<-4" 25‘ " ‘ "9<‘ 540A 2<‘ <A : C0 @)‘ 9<‘ 4 @9‘ ‘ 2@ 24& 5" <"@9 2-‘ 40 2-‘ "9<‘ <45"< 2‘ @ 45"‘ ‘ "40?‘ 42B‘ @ 22<@" 2-‘ "9<‘ "40 42‘ = "9‘ "9<‘ <4A 0 "42‘ > 2-B ; & ; <B‘ "9<‘ 2<D"‘ C <@"‘ ‘ 4""4@>)‘ 2‘ : - : 5"‘ U&K Y& 4A 0< 2‘ <DA : 2B<B&"‘ ‘ : -<2< "9<‘ 4BG 54020 "?‘ ‘ 422<D 2-‘ "9 5‘ A " 2‘ ‘ "40?F 42B‘ 2‘ @" C< ‘ ! <2< 40‘ (< ; 4 5‘ =45‘ B< <B‘ " ‘ D‘ 9 5‘ 9<4B N : 4 "< 5‘ 4"‘ 2@ 24& " ‘ 5<N : <5"< ‘ "9<‘ <G<2 : <& " ‘ "4><‘ @ ; ; 42B‘ ‘ "9<‘ A4A40‘ " A5‘ 2‘ "9<‘ B 5" @"& 42B‘ " ‘ <5"4C0 59‘ 4‘ A G 5 240‘ 4B ; 2 5" 4" 2)‘ 2‘ "9<‘ 5A 2-‘ ‘ K ‘ "9<‘ 045"‘ A <"<2@<‘ ‘ <5< G< =45‘ "9 =2‘ 4=4?)‘ 9<‘ 4 @9‘ ‘ 2@ 24‘ 42B‘ "9<‘ B : @9 <5‘ ‘ C 2 & 4@< 4"4& 42B‘ 4 ; < 2 ‘ =< <‘ 2@ A 4"<B‘ 2‘ "9<‘ "40 42‘ > 2-B ; & B G B<B‘ 2" ‘ "9 <<‘ B<A4 " ; <2"5‘ <"4 : & : 5 2<& 2" E& 42B‘ 5 : C <@"<B‘ " ‘ "9<‘ "40 42‘ 2@ B4")‘ $ 24‘ =45‘ B<5A4"@9<B‘ " ‘ 0 N : B4"<‘ "9<‘ B<C"‘ 42B‘ 4 42-<‘ "9<‘ C : B-<")‘ 9<‘ A "‘ ‘ 2@ 24‘ =45‘ " ‘ C<‘ @0<4 <B‘ "9<‘ @ "?‘ =45‘ " ‘ C<‘ " <B‘ 42B& =9 0<‘ "9<‘ @ 45"5‘ =< <‘ " ‘ C<‘ @4 < : 00?‘ 5 : G<?<B& 4‘ <- ; <2"‘ =45‘ " ‘ C<‘ ; <B‘ : "‘ ‘ "9<‘ A4A40‘ " A5)‘ : "& =9 0<‘ "9<‘ 2 "9< 2‘ A G 2@<5‘ <00‘ " ‘ "9<‘ "40 42‘ > 2-B ; & "9<‘ ; 5"‘ A <@ : 5‘ 42B‘ B 5" 2@" G<‘ A " 2‘ ‘ "9<‘ ! "4"<& 2@0 : B 2-‘ "9<‘ @4A "40& =45‘ 422<D<B‘ " ‘ "9<‘ ' <2@9‘ ; A <) ‘ 400‘ "9<‘ <G<2"5‘ =9 @9‘ N@@ : <B‘ B : 2-‘ "9 5‘ @ =B<B‘ A< B‘ ‘ "40 42‘ 9 5" ?& 2 2<& 2 "‘ <G<2‘ "9<‘ A4 " " 2‘ ‘ <2<" 4& @ : "‘ 5 ‘ B<<A‘ " ‘ "9<‘ "40 42‘ 9<4 ")‘ <0 - : 5‘ 5@<A" @ 5 ; ‘ =45‘ @ ; ; 2‘ <2 : -9‘ 2‘ "40?F 40 0<42‘ A 2@ A0<5‘ =< <‘ = B<0?‘ 9<0B& ; <2‘ ‘ 2"<00 -<2@<‘ <4B 0?‘ 4@m >2 =0<B-<‘ "94"‘ A <5"0?‘ - G< 2 ; <2"‘ ; <42"‘ 5"4-24" 2‘ 42B‘ 2< @ <2@?)‘ : "‘ "9<‘ $4A4@?‘ =45‘ 4‘ A 55<55 2‘ @ ; ; 2‘ " ‘ 400‘ "40 425F 42B‘ ; <‘ =45‘ "9<‘ 54@ <B‘ @ "?‘ ‘ "9<‘ 4@<)‘ 2‘ "40 4 "‘ ; -9"‘ 5< G<‘ "9<‘ ' <2@9‘ 2‘ $ <B ; 2"& ‘ <G<2‘ 2‘ : 5@42?& 42B‘ <<0‘ 2 ‘ 5<4 @9 2-5‘ ‘ 9<4 "F C : "‘ " ‘ -400 @ 5<‘ ; <& " ‘ 4 <5"‘ "9<‘ 9<4B‘ ‘ "9<‘ 4"9 0 @‘ <0 - 2& =45‘ N : 2"<55<2" 40‘ ; A <"?‘ 42B‘ " <45 2‘ " ‘ "9<‘ B<<A< ‘ 25" 2@"5)‘ 9<‘ A <"<D"5‘ ‘ "9<‘ 422<D4" 2‘ 42B‘ "9<‘ @ @ : ; 5"42@<5‘ =9 @9‘ 4""<2B<B‘ "‘ ; 4B<‘ @ 0m 0 : 5 2‘ A<@ : 0 4 0?‘ -2 ; 2 : 5)‘ "‘ =45‘ 455< "<B‘ "94"‘ 94 0< ; 4-2<‘ 94B‘ = 59<B‘ "9<‘ $ A<‘ " ‘ C<‘ 4‘ G4554 0‘ ‘ "9<‘ ; A <F "94"‘ $: 5‘ ‘ 9 8 ‘ 400 <B‘ 9 ; 5<0 ‘ = "9‘ $ "<5"42"5F 42B‘ "94"& ‘ "9<‘ $4A40‘ ! "4"<5‘ =< <‘ 2 "‘ 4428<B& ; <‘ = : 0B‘ C<@ ; <‘ "9<‘ [‘ < : -<‘ ‘ C -42B5‘ 4 5<B‘ ‘ G ; "<B‘ C?‘ 9<

KW W_ # $! " Z K

<2< ; <5 9 5 4 <5"?' 2' "9<' "< " ?' 4A0<5)\' 9<' A04 2' 4@"5' =< <' "94"' " <' $ A<' 94B' B<@0 2<B' " ' 2' 2' 42' <25 G<' 5B0 42 <' 4-4 25"' 2-042B' "94"' 9<' 94B' @ 2"<5"<B' "9<' <D"<25 2' "9<' $ <2B9' 2@ B4"' " ' $ <B ; 2"' 42B' (- : <' 42B' "9<' <D"<25 2' "9<' 9B 42' 2@ B4"' " ' <2<" 42' "94"' 9<' 94B' < :5<B' " ' 542@" 2' "9<' B G @<' 6< ; <'F 4 B' "94"' 9<' 455< "<B' "9<' 0B' A4A40 @04 ; " ' 5:a< 4 2"?' G<' 4A0<5)' 2' "9<' = B5' 9<' 94B' : -9"' "9<' " 4B " 25' 9 5' @<' "9<' 5A " :40 42B' "< ; A 40 2B<A<2B<2@<' 9 5' !<<)

'@945" 5<' 5:@9' 25 0<2@<)' <2< 40 00 5' =45' @ ; ; 42B<B' 642:4 ?' K E" 'N:4 "<' 9 5" A5' A' ; <' " '5<a<' "9<' 45"0<' '!42"' 2-<0 ' 42B' " '4 8'<G<' ?' 2-0 59' <5 B<2"' 42B' <4A 0 "42' < :-<<)' 9<' $ A<' =45' "9<2' 5:C <@"<B' " '<G<' ?' 9G ; 0 4" 2)' <' =45' 2A@<B' " 'B 5 ; 55' 2<' 5<@ <"4 ?' 4 "<' 42 "9< F 9 5' -:4 B' =45' B 55 0G<BF 4' ; 42' 2<=5A4A<' %45' 04 : ; 9<B' 4-4 25"' "9<' "< ; A 40 A =<)' 2' 4?' KY' K 8' 4' <=' B4?5' C<' <' "9<' C4""0<' ' 5A< ; ' 4' B<@ <<' =45' 55:<B' 422<D 2-' "9<' A4A4F !"4"<5 " ' "9<' ' <2@9' ; A <F 42B' 4' 25:0"4' =45' 4AA 2"<B' " ' @4 ?' 2' "9<' - G< 2 ; <2")' 9<' $ A<' <5A 2B<B' = "9' "9<' :00 F% ' ! # B <@"<B' 4-4 25"' 400 =9 ' 59 :0B' "4><' A4 "' 2' "9<' 5A 0 4" 2' ' "9<' 9: @9F' 42B' ' "9 5' < @<' 9<' =45' ; 4B<' A 5 25' 9: <B' :"' ' "9<' @4A "40' 42B' " 425A "<B' " ' !4G 24)' 9<' 4@"' =45' @ 2@< "<B' C<"=<<2' : 4"' 42B' @ 5' 4AB' "2 ; 5- <55<B' "9<' ; <45: <' ' 4A < 2.5' 25" :@" 25)' :"' 2@<' B 2<' "' @ :0B' 2 "' C<' :2B 2<F 42B' "' A G<B' "9<' 5-240 ' 4' <G<04" 2' ' " ":B<' 2' 42' :2<DA<@"<B' N:4 "<)' 9<' ; 42' @0< -?' B B' 2 "' 5"42B' 9 -9' 2' "9<' A:C0 @' <5"<< ; F 42B' 2 ' 5<@" 2' ' "40 42' 5 @ <"?' 5<< ; <B' 0<55 0 ><0?' " ' : 2 59' 4' A4""< 2' ' ; 420?' 2m B<A<2B<2@<)' #<"' =9<2' 42' 4"9' ' C<B <2@<' 42B' <40"?' " '"9<' ; A< ' =45' A A 5<B' " '"9< ; ' 42B' "9 :-9' "' =45' =<00 ; B< 5" B' "94"' 2 "' 20?' A < <2A<2"' C:"' 0 C< "?' 42B' 4' 0 G<0 9 B' B<A<2B<B' :A 2' "9<' ' 425=< ' "9<' ; 4 "?' ' "9< ; ' B<@0 2<B' " ' 5=<4)' <5"' ; A 5 2 ; <2"' <D 0<' ; 4B<' 2 ' ; A <58 2)' [' ' C<-42' " ' 5:5A<@"'\' = "<' 40C ' 9<' 5<@ <"4 ?' ' "9<' ; 42' 25:0"4' [' "94"' "9<5<' B<5A 5<B' A <5"5' =< <' "9<' 5" A-<8' ; <2' A< 94A5' "9<' 20?' 5" 2-' ; <2' 2' "40?)\' :"' ' K ' ; 2>5' K ' B<@0 2<B' " ' 4@@<A"' A<25 25' ; ' "9<' ' <2@9' G< 2 ; <2")

25 5"<2"0? = "9' "9<' A 5@ A" 2' ' "9<' 2 2 : 5' "9<' " 425 " 2' =45' " ' C<' < <@"<B' 45' A4 20<550?' 45' A 55 C0<)' 9<' 25:0"4' =45' " 0B' "94"' "' =45' 4A 0< 2.5' 2"<2" 2' ' B ; 2 59' 4"9<' ' "942' 2@ <45<' "9<' "4D<5)' ' !<24"<' ' 5 D"?' ; < ; C< 5' @9 5<2' ; ' "9<' 9 -9<5"' 42>5' ' ; 42' 5 @ <"?' =45' " ' @ 2B:@"' "9<' 4 4 5' 42B' 04""< ' "9<' A B<' ' "9<' @ "?)' 9 :-9' <:B40' B:<5' =< <' " ' C<' 5:AA <55<B' "9<' 2 C 0 "?' ; -9"' A <5< G<' "9<' ' " "0<5' 42B' 0 G< <5)' = ' ; 425' =< <' " ' 5 "' 2' "9<' ; A< 40 !5 4"<' 42B' "= ' 2' 9<' :2@ 0 ' !"4"<)' 2' :-:5"' &K W' "' =45' 422 :2@<B' "94"' 4' A404@<' 4' @ :2" ? 9 :5<' 42B' 4' @ G 0 0 5"' < ' 4' A 00 2' 42@5 =< <' " ' C<' 400 ""<B' " ' 4' - 42B' B -2 "4 ?' ' "9<' ; A <' "9< <4 "< ' " ' C< 24 ; <B)' <42=9 0<' "9<' @ "?' =45' " ' 0 5<' "5' B 5" 2@" G<0?

))) x)) x) /1

2" "9< ;4 ><"H 4ARB<R ;' 2"<2B<B " 244 4' A @8<" 0?& =9 5< 2"< <5"5 = 0B 9< C :2B' :A' = "9' "9< @ 2" 2:42@< ' ' <2@9' :0<)
2' 2 ' N:4 " .' ' "40?' =45 "9< < 4' ; < @ ? 2-' 2<<B ' <2< -<" @ < ; ' "942' 2' "9< > 2-B ; ' ' 4A0<5& < < =45 4' A< A0< A0:2-<B'M 2' ; <B <G40 C4 C4 5 ; ' -2 42"& A & 04a?& 5:A<"5" " :5& B<- 4B<B' 2 '" 20?' C?' 29< <2'' 4:0"5' ' @94 4@"< ' C:'" C?' 0 2-' <2":<5 'H AA <55 2' 42B' 2<-0<@"}' ' @9' 42B8 ?B<-<B&}'4C5<2"<<}'6 " 0B0A B' B455_' <D" "<B& "9 :-9' "9< ; <B : ; ' ' "5 4A4@ :5 4-<2"5& <G< ?' ; ' ' B:< ' 5< G @< =9 @9' "9< 8 <""< <B'6 822?' ' "9< 2 C0< @45"< 94B' C<<2' 4C0< " ' B<G 5<}' 9< C: B<2' ' "9< !"4"< "4D<5 <00& 40 ; 5"& <2" <0?' :'"9< A }' 9< @ :5< ' :5" @< =45 94C " :400?' 2"< < <B' = "9' C?' "9< / 2-F 42B' "9< : B 8 '2 '" 20?' C :-9'" "9< ' A04@<5& C:'" <@< G<B' A <5<2"5 8 ;' "9< 0 " -42"5 =9 ' A0<4B<B' C< < "9< ;}' ": < 2B<<B' =45 4C 0 59<B& C:'" 5"4 G4" 2' 8 B ' @94 25' < ; 4 2<B& Z2B' 40 "9< 9 5' ' "9< B4 >' 42B' A<8 " 40 <4A 0 "42' B:2-< 25}' B5' =< < 5" ' 9<0B' 2' 5<@ <"& 42B' G< B @"5 A <5@ C< C?' 4:"9 "?}' 4"8 <' -400<?5 ; -9'" C< 00<B' ; < 4A B0?& A 5 2< 5' =< < "<2' " <B' 2' 4' C4"@9' 42B' @ 2B< ; 2<B' = "9 :'" 4' A <"< @< ' :5" @<F' 2' "9< "9< ' 942B& ; <2' =< < ! ; <" ; <5' ; ; 2 <B' ' "=<2"?' ?<4 5' ' ; < = "9 :'" C< 2-' C :-9'" " ' " 40}' 2' "9< @ :2" ?' B 5" @"5' C -42B4-< =45 @9 2 @& 42B' =45 "9< R ;0?' @4 << ' =9 @9' 4' ? :2-' ; 42' ' 8 '" @ :0B' 4B A"}' - @:0": < =45 40 ; 5'" <2" <0?' 2<-0<@"<B' '" =45 5" 42-0<B' C?' : "<<2' 9:2B 8' B < <2'' > 2B5' ' <:B40 B:<5& C?' 4' G @ :5' 5?5"< ;' ' "4D4" 2& 42B' C?' "9< << -9"5' ' - 4a 2-' A 55<55<B' C?' "9< 2 C 0 ?}' 2>5' 42B' A <5"5& C<--4 5' 42B' C42B "5& ; <B' "9< 5"4A0< ' "9< @ :2" ?' A A:04" 2F =9 0< 2' "9< @4A "40& 0 & ' 940 5"4 G 2-' 42B' 940 24>8' ^^ ' @ 25" ":"<B' 4' 0 <8' B42-<' " ' A< 5 240 5<@: "?}' 9< 5@40 5?5"< ;' @ ; C 2<B' "9< ;4D ; : ;' ' 94 ;' " ' "9< A< A0< = "9' "9< ; 2 ; : ;' ' C<2< '" " ' "9< !"4"<}' < "942' 4' 9:2B <B' B <@'" ; A 5"5' =< < 0<G <B' "9< ; :2 m @A40 " <5& =9 @9' A4 B' 4' D<B' A A " 2' " ' "9< - G< 2 ; <2"& 42B' "9< < ; 4 2B< ' " ' "9< <:B40 0 B}' 0 ; 5'" <G< ?' 4 " @0< ' B' =45 "4D<B' 42B' "9< B:" <5 5 ' 4 5<B& "9< :'" " ' 4 4 ; <}' ' 98G?' "4D' 28' 540"& <2B< <B' 4BB " 2400?' AA <55 G< C?' @ ; A:05 ?' A: @945<& =45 5A<@! 0?' C: B<25 ; < " ' "9< A }' 9< 04=' =45 4' @94 5 ' A <@<B<2"5}' 42B))@:5" ; 5& ; :2 @ A40 5"4": "<5' 42B' ?4 I' B<@ <<5F C:'" "5 C5@: "?' =45 40 ; 5'" ; ; 4"< 40& ' '" =45 o @B25"= 00 b00 5:AA0< ; <2"<B' ' " 425- <55<B' C?' "9< <D@<A" 240 4@" 2' '"9< =2)
2' K ' '< B 242B' ' =45' @ ; A<00<B' "N8' ; 4><=4?' ' 6 5<A9' ' 24A4 "<42B' "9< < =< <\5 ; < - :2B5' ' 9 A 2-' "94 ' 9<b5<@ 2B' 08 $ <2@9' @@:A4" 2' ' 4A0<5' = :0B' C< ; < A< ; 42<2'' "942' "9< 5")' 9 <6 : C 25& 4 "< ' 400& =< <\ 2" 4B< ; 898788-878888 --8 59842B' "9< C0 CB ! ? <G<2-<\= @ "C<?' 94 "48 ; 8 ; 8" ' 42!-8' 2' KYWW' 94B' ; 4B< 9< ;' ; 42?' <2< ; <5)' 6 5<A9' =45 42' "40 428' =9 ' @ :0B' ' 5A<4>' "9< 042-:4-< 42B' 4AA <@ 4"< "9< @94 4@"< 5" @5' ' 9 5' 5:C <@"5F]' 42B' 9< @4 ; < " ' 4A0<5' C4@><B' C?' "9< <A:"4" 2' ' "9< ; A < 42B

Z Z' , / %' ' '+ 0 ' '- % ' I 5 f

4 B<B' C?' "9<' 5= B' ' 455<24' 42B' 82 <)' 9 : - 9' 2 ' 5 0B < ' 42B' B<5" " : "<' ' 42?' @ 25A @ : : 5' "40<2'" ' 4@" 2' 6 5<A9' 94B' 4' - B' ; B' ' @ ; ; 2' 5<25<' 42B' 5 ; <' - <2 8<' A A : 048? ; A4"9 <5)' 94'" 9<' =45' <2" <0?' 5 : C : - 4"<B' "9<' = 00' ' 9 5' C "9< ' 42B' "94'" 9<' =45' G< ' 2B' ' B 5A04?' 5' " : <' <2 28)' : '" 9<' =45' B 5 2"< <5"<B' 04C : 5' 425 : 5' " ' ; A G<' "9<' 0 '" ' 9 5' 5 : 08<@"5F 42B' '" = : 0B' C<' 42' 25 : 0'" " ' @ ; A4 <' 9 ; ' " ' "9<' B<- 4B<B' 42B' = "90<55' @ <4" 2<' =9 ; ' 9<' B 5A04@<B)

9<' 5 " : 4" 2' =45' 2<' ' <D@<A" 240' B @ : 0"?)' 9<' c : <<2' ' 4A0<5 094B' < ; A" <B' " <' C42>' 42B' 4C5@ 2B<B' = "9' 6"9<' 0<<"F 42B' "9<' =9 0<' @ 45'" =45' <DA 5<B' " ' " 59' @ : 5< 5)' 9<' $ A<' "0<@0 2<B' " ' <@ -2 5<' "9<' 2<=' / 2 -' 42B' "9<' @9C 59 A' ' 4A0<5' < : 5<B' " ' @ 2m 5<@ 4"<' 9 ; 3 4' 5< : 5' 04=' 2' "9<' <?<5' ' 4' 5 : A< 5" " : 5' A< A0<)' 5' "9<' : '" 94B' "4><2' "9<' A <@4 : " 2' '0<G? 2 -' A4 '" ' " <' ?<4 J5' <G<2 : <' 2' 4BG42@<' 42B' @ ; ; : 2<' =45' 2"< @<A"<B' C?' "9<' 24G40' =4 ' "9<' G< 2m ; <2'" : 2B' 05B ' ; ' 9<' 5'" 2' - 4G<' 242@ 40' < ; 94 455 ; <2"') ' ; " 4@"<B' @4 ; A4 - 2' ' 4' A<@ : 0 4 0?' 94 455 2 -' > 2B' 4BB<B' " ' "5' A< m A0<D " <5)' 4<"4' -40042"0?' B< <2B<B' C?' "9<' $ 2@<' ' <55< $9 0 A5"4B"' 9<0B' : '" ' G<' ; 2"95' 4 - 4 25'" 400' "9<' < "5' ' 455<24J5' 4 ; ?F 42B' "9 5' @ ; C 2<B' = "9' ! ' 6 92' ! " : 4 'J5' G @" ?' G<' ' 8 - 2 < ' 4'" 4 B4' C <B' : A' 40' 404C 4' " ' <G 0")' "' =45' 4' = K ' 4 ; C : 5@4B<5' 42B' 5> ; 59<5' ' ; B2 - 9'" 45545 24" 25' 42B' "9<' 2 -' ' G 004 - <5F 42B' =9 0<' : 2" 0B' 4" @ " <5' =4 <' A< A<" 4"<B' 2' "9<' ! : "9' 4' " 59' 0<<'" 042B<B' 4' -4 5 ; ' 4'" 4A ' = "9 2' 5 - 9'" ' 4A0<5' "5<0)' 9<' <' =< <' "9<' ' B @ : 0" <5' ; <' 25 B : 5' 5" 00)' [' # : ' 94G<' " ' B &\' = "<' 4A 0< 2' [' = "9' 4' = ; 42' =9 ' 5' @ ; <' A< 5 2 <B' 42B' ; <' "942' 2<' @ 25A 4@? =45' : : 245><B' =9 @9' " 4@<B' "5' ; - 2' " ' 4 4' ; A0 24)

8 4A 0< 2J5' =2' G <=5' 45' " ' "9<' A 5A<@"58 B' : 2@" ; 5' ' "9<' 2<=' - G< 2 ; <2'" =< <' : 2 0B<B' " ' 9 5' C "9<' ' = "9' "9<' C : "40' B <@"2<55' @94 4@"<' 5" @' ' 400' 9 5' @ <5A 2B<2@<)' ' "9<' ^^ ! ' -4G<' " : C0<' "9<?' =< <' " ' C<' 59 "F 42B' "9 <<' ' : ' C4""<' <5' ; - 9'" C<' < <@"<B' =9 @9' @ : 0B' "9 =' C ; C5' 2" ' B < <2'" A4 "5' ' 4A0<5' ' "9<' @4A "40' 59 : 0B' A G<' <5" G<)' ' <=' C - ' G 004 - <5' 59 : 0B' C<' C : 2'" " ' <B ?' "9<' 404C 425F 42B' 4' = 4 ' @ 2" C : " ; ' ') & & K' 42@5' 59 : 0B' C<' 0<G <B' " ' ; <<'" ; ; <B 4"<' <DA<25<5)' 9<' / 2 -' =45' " ' ; A 5<' 4' 5<G< ' 42B' <N8 : 40' 5?5"< ; ' ' "4D4" 2' = 9 @9' 59 : 0B' C 2 -' 2' 4' <G<2 : <' ' K & & ' 42@5' ; ' "9<' ; 4 2042B' 40' 2<' " ' @ <4"<' 4' 2 : ; C<' ' C -' < 5' ' ' <2@9' @< 5' 42B' " ' 2" B : @<' "9<' G 0' B<F 5 ' "94"' = 9 0<' "9<' ' <2@9' 04=5' ' 29< "42@<' = : 0B' "<2B' " ' 5 : CB G B<' <4A 0 "42' " : 2<5' "9<' <5"4C0 59m ; <2'" ' 4' 5?5"< ; ' ' <2"4 05' ' 4' @< "4 2' 2 : ; C<' ' 5<0<@"<B' < <' = : 0B' 5" <2 -"9<2' 42B' A< A<" : 4"<' "9<' A = <' ' "9<' ' <2@9' @ 22<D 2)' & 9 = <G< & "9<' 25" " : " 2' ' B G @<' 59 : 0B' <2B' @0< @40' A < : B @<' 6 5<A9' =45' 4'" 0 C< "?' " ' B A' "' 42B' " ' 0<4G<' "9<' 85" 4" 2' ' C "95' ; 42 4 - <5' 42B' B<4"95' 2' "9<' 942B5' ' "9<' A <5"5)' C G<' "B0' C<' =45' =4 2<B' 4 - 4 25'" A" ; 5 ;)' 9<' : " ; 5'" @4 : " 2' =45' <N : <B' 2' 4 5 8

Z ' , 4 ! 5 6 + - % I Y =

B<@ <<B& 42B "9< =9 0< 042B 5?5"< ; =45 <G 0:" 2 5<B C?"9< B G 5 2 @ ; ; :240 A A< "?& " < 4C 0 " 2 A ; -<2 ": < 42B <2"4 05& "9< @ 2G< 5 2 '"9< + ^ <2"5 '? :2-< 5 25 2" <<9 0B A A< "?& 42B "9< @ 2 5@4" 2 "9< G45" <5"4"<5 C<0 2- 2-" "9< B< 5 ! " < 24 B 42B ! " <2<B @"& %9 0< "9<5< @942-<5 2@ <45<B "9< 2: ; C< A A <" 5 42B A ; "<B "9< 4- @:0": 40 <2< -? "9< A A:04" 2& ; <45: <5 =< < "4><2" " 4C B-< "9< - 4a 2- -9"< 2 "9< A:0 4& 42B " C 2- 4 04 -< 4@ <4- < :2B< " 004-<) $ 5 2 < ; 42B 04=< < ; =< < "9< 5:C <@"5 =9 @9 @@:A <B " 9< 4""<2" 2 "9< - G< 2 ; <2"F 42B& "9 :-9 "9< ; ; <2" =45 2 " 4G : 4C0< " <DA< ; <2"5 2 @0< ; <2@?& "9< A 5 25 =< < A04@<B "9< 5" " ; < :2B< 9: ; 42< <-:04" 25& 42B "9< @ :2" ? 2" B:@<B " "9< C<2< "5 A:C0 @ " 40) 2 G <= "9< 404C 42 <G 0"& : <D" 4 B 24 ? 42B 5< ; ; 0 "4 ? : "5 =< < @ <4"<B " B<5A4"@9 5: ; ; 4 ? :5" @<F "9<?" =< < 2 " 4C 0 59<B " 00 K) 9< : ?5?5"< ; %4! 2<G< 2" B:@<B 2" 42? A4 " "40?F C:"& = "9 "9<5< N:40 @4" 28 42B "9< 5 C<0 2- 2-" "9< 24": < "9< B<5 "9< ; 5<0G<5& "9< ; 0 @ 40 !?5"< ; 2" B:@<B C?"9< <2@9 ; 5 4 4G : 4C0< @ 2" 45" " "9< 5?5"< ; =9 @9 " B 5A04@<B)

6 5<A9 94B < -2<B C4 <0? "= ?<4 5 =9<2& 2 4 @9 K &K & 9< =45 @ ; ; 42B<B " <D@942-< 9 5 > 2-B ; "9< "9 2< ! A4 2) $; 4? 22< 9< 55:<B 4 @ 25" ":" 2 " 9 5 ; < 5:C <@"5& "9< ; 4 2 <4": < =9 @9 =45 4 A4 0 4 ; <2" 4 9:2B <B ; < ; C< 5& < -9"? =9 ; =< < " C< 24 ; <B C? "9< / 2- 42B "=<2"? C? "9< <0<@" 40 @ 00<-<5) :" &<G<2 "9 5 0 ; "<B @ 2@<55 2 " "9<8A4 0 4 ; <2"4 ? 5?5"< ; =45 <-4 B<B 45:2" ; <0?& C "9 C? "9< G< 2 ; <2" 42B C? "9< <4A 0 "425 "9< ; 5<0G<5F 42B& "9 :-9 B< 5 =< < 55:<B 2 K K 9 "9< @ 2G @4" 2 B<A4 " ; <2"40 @ :2@ 05& "9< < =45 5 -<2< 40 4 <0:@"42@< " 5< G< :A 2 "9< ; "94" ":"9< A - <55 2 "9< B <@" 2 A 0 " @40 0 C< "? =45 4 <5"<B) ' <2@9 :0< 2 4A0<5 <5:0"<B 2 4 0 C< 40 B<5A " 5 ; & " ; " 4 ; ; <00<B C? @ 25" ":" 240 ; 5 A G 0<-<B @ A 4" 25)

6 4@9 ; : 4"& C< 2- < <B 9 5 @9 @<& = 5<0? B<"< ; 2<B " < -2 2 4A0<5 4"9< "942 2 $ ":-40) S 5 5A<@"4@:04 4AA<4 42@<& 9 5 C 00 42" ; 0 "4 ? <@ B& 9 5 4 4C0< ; 422< 5& ; 4B< 9 ; 4" 2@< 4 4G : "< = "9 "9< B0< 42B ; A <55 24C0< <4A 0 "42 A A:04@<F 42B 9 5 = < 4 0 2<& "9< 5 5"< 9< ; A< & 4 942B5 ; < 42B @4A4C0< = ; 42& 4BB<B " 9 5 A <5" -< 42B A A:04 "?) $; 4 0? 4 5 0B < & [64@ 2 \B<G "<B 9 5 ; 4 2 4""<2" 2 " ; 0 "4 ? 4 8 9< <4A 0 "42 4 ; ? =45 5"<4B 0? 2@ <45<B& :2" 0 2 K KZ "5 2: ; C< 5 5" B 4" &) C 0B 4""4@>:A 2 4A 9 <5:0"<B 2 "9< <DA:05 2 "5 5 @42 42B 40"<5< -4 5 2) 9 5 - <4"0? ; A <55<B "9< <4A 0 "425F 42B& "9 :-9 "9< 4""< ; A"<B 2G45 2 ! @ 0? 2 K W =45 0<55 5:@@<55 :0 42B 0<B " 4 ; B4C0< <@ :B<5@<2@< C -42B4-<& 404C 4 =45 :0" ; 4"<0? A4@ <B C? "9< 5?5"< ; 4" @ 5<G< "<5 <2< 40 429<5) 2 "9< ; <42" ; < "9< < ; 5 "9< A <G :5 < -2& ; 42? =9 @9 <D 5"<B 20? 2 A4A< & =< < @4 <B 2" <D<@:" 2) ' <:B40 ; ; 55 2& A <5 B<B G< C? :58A<^: 0 & "9< 2 5"< "9< 2"< & B<40 = "9 400 "9<N:<5" 25

R% 8 5 C, > % 6 Z Y

=9 @9 4 5< :'' "9< 2<=042B 04=5% B 5" C:"<B B ; 4 2 042B5% 5<"" <B 5@40<5 @ ; A<254" 2% 42B @ ; A0<"<B "5 4 B: :5"45>9 K K 9 :-9 @4 < :0 242@< B < <G ; :< 5< 5"<4B 0?% 42B 59 =<B 4 5 ; A0:5 2 K K 42B K KK - @:0": 40 5 @ <" <5 =< < :2B<B ; <G4 ? A G 2@<F 42B <40 <2< -? =45 "9 =2 2" <B:@4" 240 24)

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y x y >

7 % 3 8 9 . + Z W

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; 2 - "9< 4A 0< 2 @ ! "4"<5 @4 G<B : " < ; 42 5 0 "9< 42B : @9?" Q =45 "9< <4 0 <5"& 42B " A <5<2"5 5 ; < <4" : <5 5A<@ 40 2"< <5") " =45 2<G< 4@" : 400?" 422<D<B " "9< ' <2@9 ; A <& 42B ?<" ; K &" K " =45 A 4@" @400?" - G< 2<B ; $4 5) " =45 2<G< - G<2 4 A4A< @ 25" " : " 2& ?<" " <@< G<B "9< ' <2@9 B<5 = "9 5 ; < ; ; B @4" 25 4B : 5"<B " 0 @40 @ 2B " 25E& "9< ' <2@9 ; : 2 @ A40 5?5"< ; & "9< ' <2@9 "4D<5& @ 25& = < 8 "5 42B ; <45 : <5) " @ 2"4 2<B = 8 2 "5 C B< 5 "9< ; 5" ; A "42" 2B : 5" 40 8 2 2 < ; 42?& 42B =45 "9< < <A<@ : 0 4 0? 2 : <B C?" "9< 2" 2<2"40 0 @>4B<F ?<" "5 ; 42 : m 4@" : <5 =< <59 : " : " "9< ' <2@9 42B : "@9 ; 4 ><"5 C?" 4 "4 =400) <5 2 - 422<D4" 2 2 B< " <5@4A< 2B : 5" 40 : 2& " =45 ><A" 4" 4 ; J5 0<2 - "9 C?" "9< @ ; " ?" = 9 @9 D<B "5 C : B - <"5& @ 25 : ; <B "5 5 0B < 5& 42B B @"4"<B "9< ; 5 "5 4B ; 2 5" 4" 2) ' ; <B 2 4 @9& K & : " "9< $: 55 42 B : @9?" 0<G<5 42B "9< 4G4 42 4AA424 - < < -& "9 5 0 ""0< ! "4"< = 45 2"<2B<B " 5< G< 45 4 @ 2G<2 <2" ; 0 "4 ?" : "A 5" 2 "9< 0 = < 9 2<) " =45 4 ' <2@9 [; 4 @9\ 4 - 4 25" 42B<2C : - & : 5" 45 " ; B ; C : - 2 0B B4?5 94B C<<2)4 < ; 42 [; 4 @9\ 4 - 4 25" "9< % <2B5F 42B& 5 2@< " =45 4 ; <B 4 ; 0 "4 ?" A : A 5<& " =45 4AA A 4"<0?" <2" : 5"<B " "9< - G< 2 ; <2" 4 5 0B <) $ 2@< 6 4@9 ; : 4"& C "9< 2 04GG " "9< ; A< 42B "9< 2<5" 0<4B< 9 5< 2 "9< ' <2@9 4 ; ?) ' ; "9< 5"& : 4" @ ; A04 2<B 24 =' C : 2B4 <5 42B <D - : : 5 <G<2 : <5F 42B& =9<2 "9< "< ; 5 "9< 2 <B< 4" 2 "9< 9 2< =< < 5<""0<B 2 6 : 2<& K & "9< 42B : @9?& < -& = 9 0< C : 2B " @ 2" C : "< ; <2 " "9< 4 ; ?

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X U KZ_ 5 ! J % 5 3 ZK

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+ 9<' <' =<' <(9 =<G<' ("= ' @ @4 ; 5"42@<5' =9 @9' ; 4B<' "9<' A C0<;' ' -<0-42' 2@ A 4" 2' <D@<A" 2400?' B<0 @4"<)' 9<' A A:04" 2' '"9<' <8<' 042B5' =45' C "9' B<G :"' 42B' :2 ; 0"4 ?)' = 9 8' 54G<' A<' 94A5' 2' !A4 ;(94B' "9<' 4"9 0@' 9": @9' 5' @ ; A0<"<' 42B' :2N:40 <B' 4' B ; % 2("' 94B' 2<' "9<' C<<2' B 5@ <B "<B C?' 4' 6425 ; 5"' 5@9 5;(2 '594><2' C?' "9<' @04 ? 2-' C045"5' ' $; @9' A9 0 5 A9?)' 9<' B @" 5' ' (:G4 2' A< m 5<G< <B' 2' "9 ; ' <@" 2' '"9<' c40 @42' " @0<5(42B' 25" 00<B' 2" '" < ' B 5@ A0<5' 42' 4C9 <2@<' ' 45" 42 5;' =9 @9' 94B' C<<2' B<<A<2<B' C?' "9<' 2:B @ :5' ;<45:<5' '6 5<A9' (' :2-' "9<' <G 0:" 2' 42B' ;<' A4 " @:04 0?' 2B<' "9<' <@" ?(<G< ?"9 2-' 94B' C<<2' B 2<' " '04@< 4"<' "9<' @ 25@ <2@<' 42B' " '] ; A4 ' "9<' =B0 C< 2-' ' "9<5<' :2 ":4"<' A G 2@<5)' 9<?' =<' <' A 004-<B' C?' -2 42"' 42B' C :"40 @ ; ; 55 2< 5F' "9<?' =<' <' 5:C <@"<B' " ' "9<' @ 25@ A" 2F' "9< ' "4D<5' =<' <' 2@ <45<BF' "9< ' 9: @9' =45' A< 5<@:"<B)' "9' 42' 2@ 2@< G4C0<' 04@>' ' 5"4"<5 ; 429 A("9<' <2@9' G<;A@ <2"' 4AA0 <B' " ' "9<' <084 ' B<A4 " ;<2"5' 400' "9<' <0-:5'085'04" 2' GgC R9' 94B' " ;' 45:2B<' "9<' 9: @9' 2' ' 42@<F' 42B' "9<' @ 25<N:<2@<' =45(" 94"' "9<?' 4 5<B' 4' <0-42' <2B 1)' 25<N:<2"0?(4"' "9<' <5"4C0 59 ;<2"' ' "9<' 25:04"<(' "9<' 2 2<' B<A4 " ;<2"5(4 ' ;' 94G 2-' 4@N: <B' 4A' 4""4@9 ;<2"' " ' "9<' ' 28=' ;45"< 5(=<' <' 42-?(; 5< 4C0<(42B' ;AA"<2")' A 04" 2' C4B' B= 2B0<BF' 4B5' =<' <' C ><2' 4 B' :8 <@"<BF' 95 2B "" ' 5=4 ;4B' G<' ' "9<' @ :2" ?F' 42B' "9<' 9< ' ' <G<' ?' A4 59' =45' 8"5' 2 2 : 2-' 42B' A< 5<@:"<B' A <5"

0 9<' A 0@?' ' "9<' 25:> ' =45' =<00' @40@:04"<B' " ' 9<40' "9<' 2<4@9' =9 @9' % ' - =2' :A' C<"=<<2' $ 42@<' 42B' 9< ' 2<=' 5:C <@"5)' 4A4C0<

French prefects were sent to govern the departments, and ruled them with honesty, energy, and good sense. Canals and roads were made; prisons were reformed; brigandage was stamped out; order was introduced into municipal and village finance; a cadastral survey was pushed forward towards completion; and while the material havoc was thus skilfully repaired, the Concordat brought peace to the Church, especially as the government wisely refrained from appointing "Constitutional" bishops to the Belgian sees. Papalist to the backbone, the Belgian clergy did not go behind the decision of the Pope.

Still, the profound Erastianism of the Napoleonic system was sure, sooner or later, to cause trouble in this quarter. An able pamphleteering priest, Alfred Stevens, took up his pen against the Organic Articles, and poured satire on the new Imperial festivals and the new Imperial catechism. A great mistake was made when the Emperor insisted that the professors in the seminaries should subscribe to the Gallican Articles and teach them to their pupils; and the news of the formation of the University of France and of the inclusion of the Belgian departments within the sphere of its control was received in a spirit of angry distrust. The conscription had been peculiarly unpopular from the first; and the clergy keenly resented the obligation to promote it from the pulpit. In 1808 there was already widespread disaffection, which every fresh turn in Napoleon's quarrel with the Papacy served to intensify. Their commerce injured by the blockade, their privacy violated by the police, their homes emptied by the conscription, their deepest religious sensibilities outraged by the religious policy of the Emperor, the population of the nine departments was in no humour to appreciate the splendid work of men like Chaban at Brussels, or Micoud d'Unions at Liége. Indeed, the closing years of the Imperial administration were disfigured by an ignominious persecution of priests and seminarists.

It was comparatively late in the reign of Napoleon that the United Provinces, long a subordinate republic or kingdom, became a part of the French Empire. Napoleon's early dealings with the Batavian Republic, the conversion of the republic into a kingdom in favour of Louis Bonaparte (1806), and the events which brought about the resignation of Louis and the annexation of his kingdom (1810), have been described in previous chapters of this volume. It only remains here to consider the condition of the Dutch provinces during the brief period in which they were directly under Napoleon's rule. The decree of annexation laid down that Amsterdam was to rank after Paris and Rome as the third city of the Empire; that Holland was to contribute six members to the Senate, three to the Council of State, and twenty-five to the Legislative Body, not to speak of two judges to the Court of Cassation, three *auditeurs*, and three masters of requests. Lebrun, Duke of Piacenza, and Arch-Treasurer of the Empire, was appointed

(<:"<242" 8< 40 2' 0042B' 42B' 25" :@"<B' " ' 2" B:@<"9< ' <2@9' 5?5"< ;) [' ' 4 ;' 4C :"' " ' A<2' "9< 2" 2<2"' " ' ? :' 2B:5" ?&0 54 B' 4A 0< 2' " ' "9< :"@9' B<A:" <5' =9 ' =< < 5: ; ; 2<B' " ' $4 5' " ' 455 5"' 2' "9< "45>' ' 2@ A 4" 2) [' ?' 2"<2" 2&\' 9< = "<" ' (<C :2& 9 5' : C42< 42B' B -2 <B' 0 <:"<242"& [' 5' " ' - G< 2' "9< @ :2" ?' ; ?5<0)0

9< @ 25<N:<2@<5 ' "9< <DA:05 2' ' [- B' / 2-' (: 50' =< < 4A B0?' ; 4B< <G B<2"') 9< 2" ; 45"' 2' "9< A:C0 @' B<C"' =45' <B:@<B' C?' "= "9 B5F' 4' "4D' ' ' A< ' @<2"& =45' 0<G <B' 2' @ 0 2 40 ; < @942B 5< :2B' 2' :"@9' =4 <9 :5<5F' 4' <G<2:< ' & & ' 0 25' =45' <D" "<B'81 ;' 4' A A:04" 2' ' !& & F' 42B& =9 0< "9< C0 @>4B< =45' 2 =' ' "9< 5"' " ; < 5" @"0?' <2 @<B& "9< @ 25@ A" 2' =45' 2" B:@<B' = "9' 400 "5' - :5) % "9' 4' 5 2-:04 ' < 2< ; <2"' ' 5" 2-<2@?' "= ' <0- 42' A < <@"5' =< < 4AA 2"<B' " ' :0< "9< ; A "42"' B<A4 " ; <2"5' ' ^: B< ' !<< @4A "40 ; 5"< B4 ; E' 42B' "9< :@9<5' B< <:5< @4A "40 ""< B4 ; E' 42B' "9< @ :<0"?' 42B' - : ' = "9' =9 @9' B< <00<5' 42B' B< !"4554 "' <2 @<B' "9< @ 25@ A" 2' 0< "' 42' 2B<0 C0< ; A <55 2' 2' "9< @ :2" ?) 9< B ; @ 0 4 ?' G 5 "5' ' "9< ' <2@9' A 0 @<& 8 <' 2<@<55 "?' ' C"4 2 2-' 4' A 0 @< A455' ' "9< 5 ; 400<5"' : 2<?& 42B' "9< 2N: 5 " 40 ; <"9 B5' 2<@<55 "4"<B' C?' "9< 2<=' <D@ 5< B:" <5& 2@ <45<B' "9< -<2< 40]B 5@ 2"<2") "' 5<< ; <B' " ' C< "9< ' <2@9' A 0 @?' " ' C0 "< 4"<' 400 "9< 24" 240 ; < ; <5) 9< 24 ; <5 '"9< 0B' A G 2@<5' =< < 4C 0 59<B& 42B' "9< @ :2" ?' =45' B G B<B' 2" ' 5<G<2' B<A4 " ; <2"5) "' =45' <24@"<B' "94"' 8 ' <2@9' 59 :0B' C< "4 :-9"' 2' 400 "9< A ; 4 ?' 5@9 05& 42B' "94"' 4 "< ' "9< 004A5< ' 4' ?<4 ' 2 ' A< 5 2' 59 :0B' C< <@< G<B' 45' 4' ; 45"< ' =9 ' 59 :0B' 2 "' C< @4A4C0< ' "<4@9 2-' "9< :B ; <2"5) G< ?' C >' 94B' " ' 54" 5 ?' "9< @<25 ' 4"' ; 5"< B4 ; ' 4"' $4 5) 00' A:C0 @' 4@"5' 94B' " ' C< 4@@ ; m A42 <B' C?' 4' ' <2@9' " 42504" 2F' 42B& =9 0< 2 ' B<A4 " ; <2"' =45' 400 =<B' ; <"942' 2< A 0 " @40 2<=5A4A< & "94"' 2<=5A4A< ' 94B' " ' C< C 0 2-:40 ' 94"' "9< @ :2C?' ; -9"' C< 5" 00 :"9< ' B<24" 240 5<B& 4' "9 B' ' "9< & @< 5' 2' "9< :"@9' 4 ; ?' ; :5"' C< ' <2@9& =9 0< "' =45' 4' A 2@ A0< " ' < ; A0 ?& 45' 4 ' 45' A 55 C0<& :"@9' @< 5' 42B' -<2< 405' :"5 B<"9< ' =2' F' @ :2" ?) 9< :2 G< 5 " <5' ' (<?B<2' 42B' 2 2-<2' =< < @ 2G< "<B' 2" ')4@4B< ; <5' ' "9< 2 G< 5 "?' ' ' 42@<& =9 0< = ' ' "9< :5:40 ' <2@9' A4""< 2' =< < 5<"' :A' 2' 2 2-<2& (<?B<2& 42B' " <@9") "' 5' " :<& 45& <2' < ; 4 >5& "94"' "9< <G<2:< B< G<B' ;' "9< :"@9' B<A4 " ; <2"5& 4"' 4' 4"<A< '9<4B' 40 ; 5"' B :C0<"94"' ; A 5<B' :A 2' ' 42@<& =45' <D@0:5 G<0?' 5A<2"' 2' "9< B<A4 " ; <2"5 "9< ; 5<0G<5F' C:"' "' =45' 5A<2"' :A 2' C <@"5' = "9' =9 @9' "9< A A:04" 2' 94B' 2 ' 5? ; A4"9?& B @>?4 B' 42B' 59 A5& "5' 42B' 5 0B < 5) 9< C<5"' ' <2@9' 4B ; 2 5" 4" 5' 4@>2 =0<B-<B' "94"' "9< :"@9' 94B' 0 ""0<" ' 0<4 2' ;' "9< ;' 2' <@ 2 ; ?& <D4@" ":B<& 42B' C:5 2<55 ; <"9 B)

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! <G< 40 @ : <2"5' ' ; A< 40 A 0 @?(5 ; <' @0<4 ' 42B' 5" <4B?("9< 5' 9 BB<2' 42B' 2" < ; '"' <2" (4 <' < 0<@" <B' 2' "9<' 4@N : 5 " 2' ' "9<' 00? 42' A G 2@<5(= 9 @9' A G B 0' 4' ! " 42-' C : 0=4 >' 4-4 25'" : 5" 4(4' ; 0 "4 ?' C45<' 4-4 5'" : ><?(42B' B 5"42'" <2B = ; <2"5' ' "9<' ' <2@9' ; 4 59405)' '" =45' = "9' = 9 0<' " ' 4@N : <' 4' 5" 2-' ' 94 C : 5' 2' = 9 @9' 4' 0<<'" ; -9'" C<' C : 0"(42B' = 9<2@<' 42' <DA<B " 2' ; -9'" 5"4 '" ' "9<' <@ G< ?' ' -?A"F' = "9' = 9 0<' " ' = 2' 4' 2<=' 5" A' ' @ 45'" ' "9<' 2" 2<2"40 0 @>4B<(42B' " ' B G< '" "9<' G< 042B' @ 25 -2 ; <2"5' ' 45"< 2' @ '"' 2' ; ' "9<' < ; 42' : "<' " ' ; A< 40 "< " ?)' 9<' 00? 42' A G 2@<5'H =< <' G40 : 4C0<(= 9<"9< ' "9<?' =< <' @ 25 B< <B' 45' 4' ; 0 "4 ?' ; 4 @9(' 45' 5? A4=2' 2' "9<' -4 ; <' ' B A0 ; 4" @' <D@942 - <5)' 9<' @0 ; 4"<' =45' B<0 @ : 5("9<' 5@<2< ?' ; 42" @F' 42B' 2' "9<' 0 G<' -4 B<25' 42B' G 2<?4 B5' ' "9<' @ 45'" "9<' ' <2@9' =< <' < ; 2B<B' ' "9< ' C<0 G<B' G<2@<(# <'" 00? 4' =45' ' "9<' ; 5'" A4 '" 2' 4' 940 C4 C4 : 5' @ 2B " 2(= "9 : '" 4B5(= "9 : '" 5@9 05(= "9 : '" A 5"5(A04 - : <B' = "9' C -42B5(42B' 2<-0<@" : 0' ' "9<' 4 "5' ' 4- @ : 0" : <' 42B' <5" ?)' 9<' = B5' = 9 @9' ; < 0?' @0 "9<B' "9<' 40 ; 4" 42' ; : 2"4 25' 94B' C<<2' = 0 : 00?' B<5" ?<B' C?' "9<' 294C "42"5(2' B< ' "94'" "9<?' ; -9'" <5@4A<' "9<' C : B<2' ' 5 : AA0? 2-' " ; C< ' " ' "9<' <2<" 42' 24G?F' 42B' "9<' : A042B' A A : 04" 2("9 : -9' 5A0<2B B' 2' A9?5 N : <' 42B' G40 : 5' 2' "< ; A< (=45' A (5 : A< 5" " : 5(42B' A4 40?5<B' 2" ' <@ 2 ; @' 2< " 4' C?' "9<' 4 B5' ' : > 59' 42B' 0C42 42' C -42B 4)' 9<' < %45' ; <' A 5A< "?' 4 ; 2-' "9<' "40 42' 59 AA< 5' 42B' : " - =< 5' ' "9<' @ 45"F' 42B' "9<' <A : C0 @' ' 4 - : 54' =45' 5A<@ 400?' 2 "4C0<' ' "5' A 0 "<' 42B' <D@0 : 5 G<' 4 5" @ 4@?("5' A 5A< : 5' ; BB0<' @0455' ' <" <B' 5<4' @4A"4 25' 42B' ; < @942"5(42B' "5' = <00 " B ' 42B' 04C : 5' A<5 542" ?)' :'" 40 ; 4" 4' 94B' 40=4?5' @ 5'" <2 @<' ; <' "942' '" C : - 9'" 2)' ' @845" 40 5 : G<?' =45' : 2>2 = 2F' "4D<5' =< <' 04 -<0?' A4 B' 2' > 2B)' 2' "9<' 2"< ' "9< <' =< <' 5" 00' " 4@<5' ' 4 @94 @ @ ; ; : 2 5 ; F' : 5" @<' 42B' 4B ; 2 5" 4" 2' =< <' 40 >< G<240F' 42B(C : '" ' "9<' 4@" G<' ; 2 5" 4" 25' ' "9<' ' 42@ 5@42' ; 55 24 <5("9<' : 40' A A : 04" 2' = : 0B' 94G<' C<<2' 0< '" 2' : "< ' B4 >2<55)' 2' "9<' 5<4A "5' 4' <=' =4 B' 5A "5' 94B' @4 : -9'" 5 ; <' 4- ; <2"5'

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KYWZ K K_ ' < . ' ! , ' +! ' 1 7 ! ! ' Z K

2' "9< @ 2@0 : 5 2' '4' -<2< 40 A<4@<)' :55 ; 2'" <5 0G<B' " '42" @ A4"< "9< <G<2")' <=45 4=4 <"94"" 4A 0< 2'94Z' 5<2<" ' 5 : A < ; < A = ; ' 2' ' 42@<F 42B' < ; : 04" 2' ' A <@4 : " 2' A ; A"<B' 9 ; ' "A' 4@N : <' "9< ; 45"< ?' '"9< =9 0< 5042B' C< <"9< ' 5"" 25 : 0 94B' " ; <" ' 2"< G<2<)' ; A<00 2 -'"9<' <2@9'@ ; ; 55 2< '4"" (< 4A'" '4 : "9 5<"9<<DA<B " 2& : 554 2"" ; 4 @9<B' 9 5' C04@>' 4 ; ?' 2" '"9< !A42 59' @ 0 2?' 42B' @4 <B' 400 C< <9 ;)' 2'642 : 4 ?' & K K& !42' ; 2 - & "9<@4A "40)' %45 2' 9 5' 942B5F 42B' "9< 50<<A?' !A42 59' G< 2 ; <2"" 94B' @ ; <" ' 42' <2B "" 5' ; A C4C0<"94"" : 554 2"" 2"<2B<B' " ' ; 4><9 ; 5<0 ' 2B<A<2B<2"" ' "9< ' <2@9' <A : C0 @)' ; 5<0 ' 4' @ 2G< "" ' ' <2@9' ; 55 24 <5& 9< 94B' 5<2"" 9 5' "= ' 5 25' " ' C< <B : @4"<B' 2' ' 42@<& 42B' C4B' < : 5<B' +#' '2 - 0 59' <' " ' <@ -2 5< 9 ; '45' > 2 -' ' "9< 5042B)' "" 5' " : <"94"& 2' "9< @ 25" ": " 2' =9 @9' 94B' C<<2' B 4 "<B' C?' 4' 5 ; 400 >2 "" ' =9 "< 42B' ?<00 =' 4B ; < 5& : 554 2"" 94B' C<<2' 4AA 2"<B' - G< 4 ' ' 0 < 42B' - G<2' "9< A =<' " ' 24 ; < 9 5' 5 : @@<55)' 4"& 45 "9 : -9 : "9 5' @4 << ' 9< 94B' C<<2' @4 < : 0 " ' C"4 2' "9< 59<0"< ' ' <2@9' 4 : "9 "?& 5 ' 2 =' 6 : 0?& K K& 9< 5<2"" 0 2B' 2@<2"" " ' $4 5' " ' 04?' < @ 25" ": " 2' C< < 4A 0< 2)' 5' B<4' %45 " ' : 2B' 42' 4 : " 2 ; : 5' - G< 2 ; <2"" : 2B< ' ' <2@9' 5 : a< 4 2"?& B< <2B<B' C?' C04@>' C4""40 25& C : "" 455 5"<B' C?' "9< 5> 00 ' =9 "< BG 9425' 42B' ; <@942 @5& 2@<2"" <A "<B' "94"" 9< =45' "9< 20?' ; 42' =9 ' @ : 0B' <5@ : <"9< @ 0 2?' ; ' 424 @9?' 42B' >< <A' "" 4 "9 : 0 " ' ' 42@<)' : "" 9< <=< <0<""< 5' ; ' "9< %<5"" =9 @9' 5A >< ' 9 ; ' 45' : 00 ' " <4@9< : 5' B<5 -25)

: 554 2"" =45 2B' ' 54? 2 -' "94"" "9< 0 C< "?' ' "9< C04@>5' @ : 0B' 20?' C< @ 25 0 B4"<B' C?' "9< A 5A< "?' ' 4 - @ : 0" : <& 42B' 9< 5<"" 9 5' 2@< 4-4 25"" 5 - 8 42' <G 0 : " 2)' "" 20?' =< <"9< =9 "< A042"< 5' : -<B' " ' <" : ; ' " ' "9< 5042B& C : "" : 554 2"" @<B' 2<- ' 04C : ' C4@>' " ' "9< A042"4" 25' 42B' B 4 - 2<B' 9 5' @ ; A4" "5' " ' <G< "" " ' "9< ' 0B' "45>5)' < % : 0B' 2 "" <G<2' 400 =' "9< C04@>5' " ' 4@N : < 5 ; 400 A0 "5' ' 042B& 9 0B 2 -' "94"" 4' A<4542"" A A <"4 ?' = : 0B' C< B0< 42B' : 2B 5@ A0 2<B)' 5' 242@< =45 8@<00<2 "F 9 5' A 0@?' ' <<' ; A "5' ; ' ; < @4' =45 <55<2" 40 2 "" 20?' " ' "9< =<00 C< 2 -' C : "" <G<2' " ' "9< 5 : 5"<242@< ' "9< @ 0 2?F 42B' "9< <94B' 40=4?5' C<<2' 4' A4 "?' 4 ; 2 -' "9< A042"< 5' 4G : 4C0< " ' 5 ; < 5@9< ; < ' @ 0 2 40' 4 : " 2 ; ?)' 2' "9< =9 0<& "" = : 0B' 94G< C<<2' = 5< " ' 0<4G< 9 ; ' : 2B 5" : C<B& : 2" 0 9< 94B' 59 =2' @0<4 ' A ' ' B B ?40"?' " ' "9< ' <2@9' @ 22<D 2

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"")' x

K K ' @ + , ' ! , ' 3 ') ' ' 5 , 3 , 3 ' Z

1 ! !' '8 ' != 55' '<B< 4" 2& (: 5'B0 ?' ' ' C : -') 9<
@9 @< =45' 5 -2 @42")' 0 ?' C<0 2-<B' " ' 42' 0B' A4"D B42' 4 ; ?&
=9 @9' 94B' 5 : AA0 <B' @< 5'42B' 4 ; C4554B 5' " ' ' 42@<F' 42B' 9< 4 ; 58'
94B' 5< G<B' 2' "9< != 55' - : 4 B' : 2B< ' (: 5'X (' <' =45& 2' 4@"& 2<
' "9 5<' @ : " < 5' ' "9<' 0B' ' '=9 ;' 24A4 "<' 94B' 54 B&["'
5' 20?' "9<' 2 C0<5' =9 ' : 2B< 5"42B' 5< G @<) ' ' 4"" 4@" G<' ; ; 2< 5&
A 0 59<B' 42B' @ : "< :5& N : @> = ""<B' 42B' ; B< 4"<' 2' 9 5' G <2 & 9<
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B' = "<' 9 ;' 4'0<""< ' 2' =9 @9' 9<' 54 B&[' 59400 5< a<' <G< ?' AA " : 2 "?'
' 59 = 2-' ? :' 4G :)\' 2' 5 ; 04 ' 459 2' ; 4A4 "<' 5" G<' " ' -4 2'
G<' 09<' ; < ; C< 5' ' "9<' != 55' 4 5" @ 4@?& " ' =9 ; & 2' 9 5' =2'
= B5& 9<' < <B' A =< & 9 2 : & 42B' =<40"9\ F' C : 'F 2' <5<' 4""< ; A"5'
4'F @ : A" 2' 9<' =45' 0<55' 5 : @@<55 : 0)
2' 6 : 0?' Z&K & "9<' 5'F ; <<" 2-' '"9<' <'F =45' 9<0B' 4'F ' C : -')
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; B< 4" 2& 42B' 4""4@9 ; <2'F " ' ' 42@<)' < ; 40 <?& "9<' ' <2@9'
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? 2 8' != 55' " ' "9<' % G F' 42B' != 55' @< 5' =< <' ; 4B<
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: 55 42' @4 ; A4 -2)' 2' 4 @9' e &K K & 4' <59' @ 2G<2" 2' <B : @<B' "9<
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: 2-' "9<' =4 5' ' 9<' ; A <' "9<' != 55' 5 0B < 5' ; 4 2"4 2<B' "9<' ' 0B'
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C4""0< <0B& C : 'F "9 8' 0 5'F 2< "9<' ' <4-0<' 2 ' 04-)
4A 0< 20'5' A 8" 2' B B' "9<' != 55' ; <' 94 ; ' "942' - B& ' 9<
"Q x)

Z Z' > % + 1 ' , & . ' ' #, @ + , ' I

] ; 0 "4 7' @ 2G<2" 2' ' K ' =45' @ "<B' C?' "9<' 00 <5' 2' K KZ' 45' "9< '
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2B<<B& 42' 25: <@" 2' 2' C<' 5A 2-' ' K Z& C:"' "' =45' A: <0?' 0 @40' 2'
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9 5' 5 2-' @400<B' "9<' 4""<2" 2' ' "9<' <"' " ' "9<' 2<<B' ' 4' C<""< '
-42 54" 2' ' "9<' ' <B< 40' @<5F' 42B' 2' K Z' "9<' <"' 45><B' 24A4 "<'
' 9 5' A< ; 55 2' " ' @ <4"<' 4' A< ; 42<2"' 5"4 & =9 @9' 59 :0B' C<' "9<'
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00 = 2-' 0<""< 3 [9<' @9 <' 4 ;' ' ' 42@<' 5' @0<4 0?' " ' =<4><2'
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B<@ B<B' " ' ; C 0 5<' "9<' ' <B< 40' @<5)' 9 5' B B' 2 "' 54" 5 ?' 5N ; 0< 2&
=9 ' =45' @0<4 0?' 5<<> 2-' ' 4' A <"<D"' " ' G 04"<' "9<' 2<:" 40 "?' '
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2 "' "9<' @45<F' 42B' != 55' 2<:" 40 "?' =45' A <5< G<B)
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" ' ; 4 @9' 2" ' ! = "a< 042B& ' 59400 B ' ")' ' @42' 40=4?5' 2B' 4' A <"<D"F'
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K K '@< "4 2' <G<2"5' 94AA<2<B' =9 @9' 5<< ; <B' " ' <C B<' 4@" : 40' 422<D4" 2.'
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"40?& 2' "9<' A <"<2@<' ' A:"" 2-' B =2' "9<' 5 ; : --0 2-' ' 2-0 59' - B5)

Z J

S' "

' $! (' % &' K KZ)

& ' B<40 2-' = "9' "9<' A 0 " @40' 5@9< ; <5' ' 4A 0< 2' "' 5' 2 "' 40=4?5 <45?" ' B 5@ G< ' =94"' 5' <2B' 42B' =94"' 5' ; <425.' =9<"9< ' 4' A4 " @:04 ' A <@"' 5' @4 <B' :"' ; < <0?' ' "5' =2' 54><&' ' 5' 405 ' 2"<2B<B' 45 4' 5"<A' " =4 B5' 5 ; <' : "9< ' - 40)' 9 5' 5' A << ; 2<2"0?' "9<' @45<' = "9' "9<' 2G45 2' ' $ ": -40' B<5@ C<B' 2' 4' A <G :5' @94A"<)' "' 945' "<2' C<<2' ; 4 2"4 2<B' "94"' =9<2' "9<' ; A< ' 04 ; @9<B' 6 : 2 "J5' @ A5' 4-4 25"' (5C 2' 9<' =45' "9 2> 2-' ' 2 "9 2-' ; <' "942' C 2- 2-' $ ": -40' 2" ' 0 2<' = "9' 9 5' "9< ' G455B 5"4"<5' 2' "9<' ; 4""< ' ' "9<' 2" 2<2"40' !?5"< ;)' ' @4 < :0' 5": B?' ' 9 5' ; 42 ; :G <5' 9 =<G< ' = :0B' 5<< ;' " ' ; 4><' "' @< "4 2' "94"' 9<' =45' 405 ' :5 2-' "9<' =9 0<' 4 8 ' 45' 4' @ G< ' ' 4' 0 2-' A <@"<B' 4""4@>' 2' !A4 2)

! ' 4 ' C4@>' 45' K U' 9<' 94B' ; :""< <B' " ' 4' @ 2 B42"' [' !' Q !' ' ' 6 ! ' &9 ! # & ' !# !' ' K&)' C 42B' = "9' 4 ' C<""< ' :5" @4" 2' 4 "< ' 9<' 94B' <@< G<B' B ?!5' C<00 @ 5<' A @04 ; 4" 2' 2' "9<' C4""0< <0B' ' 6<24' 9<' 94B' G =<B' " ' "4><' 9 5' <G<2-B' 2' B :<' 5<45 2' 2' "9<' A <5: ; A": :5' 4G : "<' 42B' 9 5' ; C<@ 0<' ; 45"<)' H A '4 ' ' ' G & ' ' ' ! # G 4 ' ' ' ' &O ' ' ' ! ' ' 2<' @ :0B' 94G<' C04 ; <B' 9 ; ' &' 4 "< ' 5 -2 2-' "9<' <4"?' ' 05 "' 9<' 94B' ": 2<B' 594 A0?' 2' !A4 2' 42B' B< ; 42B8' "9<' B 5 ; 5540' ' B ?' ' <G<2' B<@04 <B' =4 ' 2' 94 0<5')' <2' ?<4 5 04"< ' 4' ! "' <0<24' 9<' 4@>2 =0<B-<B' "94"' "9 5' = :0B' 94G<' C<<2' "9<' ; 5"' <DA<B <2"' 45' =<00' 45' "9<' ; 5"' 9 2<5"' @ : 5<' " ' "4><)' 2' A04@<' ' "' 9<' 4B A"<B' "9<' " ": :5' 42B' 4@9 4G<00 42' A 0 @?' ' =9 @9' "9<' 5"' 5"<A' =45' 5<<2' 2' "9<' <4"?' ' ' 2"4 2<C0<4 :)' B ?' 25"<4B' ' <@< G 2-' @ 2B -2' @945" 5< ; <2"' =45' A ; 5<B' 4' > 2-B ;' ' 9 ; 5<0' 2' 5 :"9< 2' $ ": -40' 2' @ 2B " 2' "94"' 9<' 59 :0B' 400 =' 4' ' <2@9' 4 ; ?' 4' <' A4554-<' " ' (5C 2' 42B' 0<2B' 9 5' 4 B' ' "9<' <DA :05 2' ' "9<' :5<' ' 4-42a4)' "' 5' ; A 55 C0<' " ' C<0 <G<' ' 4' ; ; <2"' "94"' "9<' ; A< ' <G<' ' 2"<2B<B' " ' @400' 2" ' <40' <D 5"<2@< B ?!5' [' A 2@ A40 "?' ' 9< 0-4 G<5)\' % 9<2' 9<' < <B' 4' @ =2' 42B' 4' <40 ;' " ' 2<' =9 ' 94B' B<5< G<B' 5 ' 00' 4"' 9 5' 942B5' "' =45' @0<4 0?' = "9' "9<' C <@"' ' @4 0 2-' 9 ;' 2" ' 4B ; "" 2-' ' <2@9' " A5' 2" ' "9<' $<2 25 :04' 42B' = "9' 2

K Y_ % + ' ' ' % ' +' + ' Z W

2"<2" 2' ' @4 ? 2-' :'" C 5' A ; 5<)' "< ' 6 ; '" 94B' C"4 2<B' A 55<55 2' ! ' $ ": -40% 2 ' 5"<A5' =< <' "4><2' " '<5"4C0 59' "9<' [A 2@ A40 "?' '"9<' 0-4 G<!)\

<42=9 0<% C< <' 6 : 2 '" 94B' <4@9<B' (5C 2% "9<' B ; <5" @" " %<5' "9<' : '" ' ! A4 2' 94B' 4'" 045'" <4@9<B' <DA0 5 2' A 2")' 2' @" C<' ' % K Y% 94 0<5' ' 4 <5"<B' 9 5' 5 2' ' < B 242B% 4@@: 5 2-' 9 ; ' ' 94G 2-' A0 ""<B' " ' B<"9 2<' 9 ; ' 42B' " ' ; : B<' 9 5' ; "9<' 42B' 9<' 4G : "<' B ?)' 9<' $ 2@<' '"9<' 5": 45' 94B' : 2B : C"<B0?' C<<2' 2" - : 2-' C<9 2B' 9 5' 4"9< J5' C4@>F' 9<' 94B' = ""<2' " ' 4A 0< 2' " ' C<-' 9 5' A m "<@" 2% 42B' " ' 45>' '"9<' 942B' '4' A 2@<55' '"9<' :5<' ' 24A4 "<)' <' 94B' C<<2' -42 5 2-' 4' A4 "?' ' ; 40@ 2"<2"5% = 9 ' 94"<B' "9<' [' $ 2@<' ' "9<' $<4@<\ 3 5 : @9' =45' B ?J5 " "0< 3 45' ; : @9' 45' 9<' B B' 9 ; 5<0)' : '" 9 5' 5@9< ; <5' =< <' G4- : <' 42B' : " 0<F' "9<' ; 5'" 9<' B B' =45' " ' = "<' C5<N: :5' 0<""< 5' " ' $4 5% <2B' " ' "4><' A <@4 : " 25' 4-4 25'" B ?05' 94 B0? B 5- : 5<B' 2"<2" 2' " ' <D@0 : B<' 9 ; ' 1 ; ' "9<' 5 : @@<55 2)' C<' 20?' @ ; A ; 5 2-' B @: ; <2"5' : 2B' 2' 9 5' A 55<55 2' =< <' "= ' B 4 "5' ' 4' ; 42 <5" ' B<2 : 2@ 2-' "9<' 4G : "<J5' B<5 -25% 42B' 42' : 2B4"<B' @ ; m ; 55 2' 4AA 2" 2-' "9<' : >< ' 2 42"4B ' 2<' '9 5' A< 5 240 ! ' ; 0 "4 ?' - G< 2 ' ' 4B B' 42B' <=' 45" 0<)' <' B<@04 <B% A C4C0?' = "9' " : "9% "94'" "9 5' 045'" A4A< ' =45' 2"<2B<B' " ' C<' : 5<B' 20?' 2' "9<' @45<' ' 9 5' 4"9< J5' B<4"9' ' A< ; 42<2'" B 54C0< ; <2")

: '" "9<' C<5'" A ' ' ' < B 242B\5' 22 @<2@<' ' "9<' - 4G<' 4@@: 54" 25' C : -9'" 4- ; 25'" 9 ; ' 5' 9 5' @94 4@"<)' <' =45' G< ?' C5" 24"<' 42B' 4' - B' 94"< % C : '" 9<' =45' 405 ' @4 : " : 5' 2' "9<' <D" < ; <% 42B' 5 ' B<5" " : "<' ' @ : 4-<' 42B' A A<' ' A B<' "94"% "9 : -9' 9<' @ : 0B' <5<2"% 9<' @ : 0B' 2<G<' ' <G<2-<' 42' 25 : 0"% ' "9<' 0<45'" 5>' =45' 2G 0G<B)' % 9<2' 4 <5"<B' 4'" "9<' 5@ 40% 9<' -4G<' : A' "9<' 24 ; <5' ' 9 5' @ 2 <B< 4"<5' 2' "9<' ; 5'" @ 4G<2' 159 2% 42B' 5<2'" " ' 9 5' A4 <2"5 "= ' 0<""< 5' : @9<B' 2' "9<' ; 5'" B 5m - : 5" 2-' "< ; 5' ' 5<0 4C45< ; <2"' C<' / 2-' 94B' 40 <4B?' = ""<2' " ' 4A 0< 2' 5"4" 2-' "94'" 9 5' 5 2' 94B' C<<2' B 5@ G< <B' 2' 4' A0 '" 4-4 25'" 9 5' ; "9< J5 0 <F' 9<' 94B' 405 ' A : C0 59<B' 2' "9<' ' ' 4' ; 42 <5" ' " ' "9<' < <@'" "94'" "9<' $ 2@<' 94B' C<<2' B<"<@"<B' 2' " <45 2m 4C0<' A0 "5% 42B' "94'" "9<' @ 25A 4" 5' =< <' " ' C<' " <B' 42B' A : 2 59<B)' : '" =9<"9<' ' '" =45' "94'" "9<' 0B' ; 42' 59 42>' ; ' C0 B59<B% ' "94'" B ?' "9 : -9'" "94'" 9<' 94B' B 2<' <2 : -9' 2' B 5@ <B " 2-' ' < B 242B' 2' "9<' <?<5' ' "9<' 24" 2% ; 4""< 5' =< <' A : 59<B' 2 ' : "9<)' 9<' $ 2@<' =45' A4 B 2<B' C?' 4' ; 4-2 0 N : <2'" 42B' " : - B' ?40' A @04 ; 4" 2F' 42B' 9 5' A4 " 5425% 2 42"4B % "9<' 42 2' 5@ N : a% 42B' @< "4 2' "9< 5% =< <' 400 =<B' " ' C<' 4@N : ""<B' 4 "< ' 4' ; 40' " 40)' "9 2-' @ : 0B' 94G<' 5 : "<B' 4A 0< 2J5 A0425' C<""< ' "942' "9<' A : C0 @4" 2' ' "9 5' 5@42B40 : 5' B ; <5" @' N : 4 <0F' '" =45' 2B < <2'" " ' 9 ; ' =9<"9<' A : C0 @' A 2 2' <-4 B<B' 94 0<5' ' 45' 42' : 224" : 40' 4"9<' ' ' < B 242B' 45' 42' : 224" : 8' 5 2)' 2' < "9<' @45<' "9<' A <5" -<' ' "9<' ! A42 59' ?40' 4 ; 0?' =45' B ; 2 59<B% 42B' 2"< < <2@<' 2' "5 4 4 5' C<@4 ; <' ; <' <45?)

<42=9 0<' 9<' =45' A @<<B 2-' = "9' 9 5' A0425' ' 2" B : @ 2-' ; <

)' X)

Z ‘ # ‘ ‘ % IK Y

‘ <2@9‘ “ A5‘ 2” ‘ ! A4 2)‘ 9<‘ <4”?‘ ‘ ‘ 2”4 2<C0<4 : ‘ 94B‘ A G B<B‘ “94”&‘ ‘ “9<‘ 0 : 59‘ 5<2”‘ 42‘ 4 ; ?‘ ” ‘ $ ” : -40&‘ “9<‘ ; A< ‘ ; -9”‘ < 2 @<‘ 6 : “J5‘ <DA<B ” 24 ?‘ @ A5&‘ 4 “< ‘ - G 2 -‘ B : <‘ 2 ” @<‘ ” ‘ “9< / 2 -‘ ‘ ! A4 2)‘ % “9‘ “9 5‘ <D@ : 5<&‘ 42‘ 4 ; ? @ A5‘ ‘ & ‘ ; <2‘ : 2B< ‘ <2< 40 : A 2”‘ 94B‘ C<<2‘ @ 00<@”<B‘ 4”‘ 4? 22<)‘ 2‘ G< ; C< ‘ ‘ : A22”‘ <@< G<B‘ B< 5‘ ” ‘ @ 55‘ “9<‘ B455 4&‘ “9 : -9‘ 2 ‘ 2 -0 59‘ @< 94B‘ C<<2‘ 9<4 B‘)‘ ‘ 2” 24” ; ‘ ‘ “9 5‘ ; G< ; <2”‘ =45‘ 5<2”‘ ” ‘ “9< ! A42 59‘ G< 2 ; <2”F‘ 42B‘ 94 0<5‘ ‘ 42B‘ B ?‘ =< <‘ 45‘ ; : @9‘ 404 ; <B‘ 45‘ “9<?‘ =< <‘ ! ; A 5<B‘ C?‘ “9<‘ 2<=5‘ “94”‘ “9<‘ ” A5‘ ‘ “9< ‘ 400?‘ 94B‘ @42” <B‘ “9< ; 5<0G<5‘ 2‘ “9<‘ G4 8‘ ‘ “9<‘ C)‘ 2‘ 642 : 4 ?‘ &K &‘ “9<?‘ =< <‘ 5 ” ‘ : “9< ‘ 5”4 “0<B‘ C?‘ “9<‘ 4AA<4 42@<‘ ‘ 4‘ “9 B‘ 4 ; ? @ A5‘ : 2B< ‘ 4 5940 2@<?& = 9 @9‘ @@ : A <B‘ 5@47‘ 42B‘ 4G4 <F‘ =9< <: A 2‘ : A 2”‘ A : 59<B‘ = 4 B‘ ” ‘ : - 5‘ 42B‘ 4004B 0 B)‘ ‘ =45‘ “9 5‘ 400)‘ 2‘ ‘ <C : 4 ?‘ 4‘ B G 5 2‘ ‘ KZ& ‘ ; <2& 95 0 ‘ ‘ <2@9& 940 ‘ “40 42& : 2B< ‘ <2< 40 : 9<5 ; <& C<-42‘ ” ‘ A : ‘ 2” ‘ 4”40 2 4‘ 42B‘ ; 4B<‘ “5 =4?‘ ” ‘ 4 @<0 24)‘ 5‘ 4”40 2 4‘ 5‘ 2 ‘” 2‘ “9<‘ =4?‘ ” ‘ $ ” : -40&‘ “9< ‘ =45 2 ‘ <D@ : 5<‘ = 94”<G< ‘ ‘ “9<‘ 4AA<4 42@<‘ ‘ “9 5‘ : “9‘ 4 ; ?‘ 2‘ “9< 2 “9 <45”< 2‘ @ ; 4 ‘ ‘ “9<‘ $<2 25”B4)

2‘ ‘ <C : 4 ?‘ K ‘ “9<‘ ; A< ‘ 2400?‘ “9 <=‘ ‘ “9<‘ ; 45>‘ 42B‘ C<-42‘ 4‘ 5< <5‘ ‘ 42>0?‘ 9 5” 0<‘ 4@”5‘ ” = 4 B5‘ 9 5‘ : 2 ” : 24”<‘ 400?)‘ 2‘ “94”‘ B4?‘ “9<‘ ‘ <2@9‘ “ A5‘ N : 4 “< <B‘ 2‘ $4 ; AB : 24‘ @@ : A <B‘ “9<‘ @ “4B<0‘ ‘ “94”‘ ” <55‘ C?‘ 4‘ ” <4@9< : 5‘ ‘ ‘ ! ‘ 2‘ “9<‘ W”9‘ : 9<5 ; <‘ 5< a<B‘ “9<‘ @ “4B<0‘ 42B‘ @9 < ‘ “5‘ ‘ 4 @<0 24)‘ 2‘ 4 @9‘ U‘ “9<‘ =<4>‘ >2<<B‘ - G< 2 ‘ ‘ ! 42‘ ! <C45” 42‘ 400 = <B‘ 9 ; 5<0 ‘ ” ‘ C‘ 5@4 <B‘ : ‘” ‘ “94”‘ @>?‘ 5” 2 - 9 0B‘ C?‘ “9 <4”5‘ ‘ @<)‘ ‘ 2400?& 2‘ 4 @9‘ K & ‘ - : < 45& “9<‘ C B< ‘ ” <55‘ ‘ 2 “9< 2‘ 4”40 2 4& =45‘ 5 : A 5<B‘ C?‘ 4‘ ‘ <2@9‘ B<“4@9 ; <2”& 5 : AA 5<B‘ ” ‘ C‘ A455 2 -‘ A<4@< 00?‘ “9 : -9‘ “9<‘ ” = 2)

9<‘ ! A42 59‘ : ‘” = 45‘ A0 : 2 -<B‘ 2” ‘ = 0B‘ 404 ; ‘ C?‘ “9<‘ 2<=5‘ ‘ “9< 5< a : <‘ ‘ $4 ; A<0 : 24‘ 42B‘ 4 @<0 24))‘ B ?‘ 9<5 “4”<B‘ ‘ 4‘ ; ; <2”‘ =9<”9< ‘ 9<‘ 59 : 0B‘ B<@04 <‘ = 4D‘ 2‘ 9 5‘ ” <4B < : 5‘ B0?& ‘ 00 = ‘ “9< <D4 ; A0<‘ ‘ “9<‘ $ 2@<‘ ?40‘ ‘ $ ” : -40& 42B‘ C B‘ “9<‘ / 2 -‘ 42B‘ c : <<2‘ 0?‘ ” ‘ 4B a‘ 42B‘ < ; C4 >‘ ‘ ; < @4)‘ <‘ 5<< ; 5 ” ‘ 94G< “9 : -9”‘ “94”‘ “9< <‘ = 45‘ 0 “”0<‘ : 5<‘ 2‘ 4”” < ; A” 2 -‘ <5 5”42@<: 4‘ “9‘ ‘ <2B9‘ 4 ; ? ‘ @ A5‘ : 2B< ‘ <55 < <5‘ 94B‘ 2 = ‘ @ ; ; <2@<B‘ ” ‘ ; H55‘ “9<‘ B455 4& 5 ‘ “0 ; ‘” ; <‘ “942‘ K & ‘ ‘ <2@9‘ 5 0B < 5‘ =< <‘ 40 <4B?‘ 5 : “9‘ ‘ “9<‘ $? <2<<5)‘ < G< ‘ “9<‘ 9<4B5” 2 -‘ : 4”‘ 94B‘ 4AA<4 <B‘ 4”‘ : - 5‘ 2‘ 4 @9‘ K ‘ = “9‘ 4‘ @ ; ; 55 2‘ 45‘ [0 < : ”<242”‘ ‘ “9<‘ ; A< ‘ 2‘ ! A4 2)\‘ ”‘ 045”‘ B ?‘ <5 0G<B‘ ” ‘ 4BG 5<‘ 25”42”‘ 0 - 9”& = “9 : ”‘ 42?‘ 4 ””< ; A”‘ ” ‘ B< <2B‘ 4B B‘ ‘ @<2” 40 ! A4 2)

: ‘” “9<‘ ! A42 59‘ A< A0<‘ 2 =‘ 2”< G<2<B)‘ 9<‘ / 2 -‘ 42B‘ c : <<2‘ 94B‘ 0< ‘” 4B B‘ ‘ 42 : <a‘ 42B‘ “9< ‘ B<A4 ” : <‘ ‘ 2B40 : 5 4‘ 94B‘ C<<2‘ 422 : 2@<B‘ ‘ 4 @9‘ K)‘ 2‘ “9<‘ A <@<B 2 -‘ 2 - 9”‘ 4‘ < @<‘ ‘” C ><‘ : ‘” 2‘ “9<‘ 0 ””0<‘ ” = 2& = 9 @9‘ =45 @ = B<B‘ = “9‘ 942 - < 5 2‘ ‘ “9<‘ : ”)‘ G< ?‘ ! A42 4 B‘ 2 =‘ ; B< 5” B‘ “94”‘ B ?‘ 94B‘ : 2<B‘ “9<‘ <40 ; ‘ C?‘ 942B 2 -‘ ‘” G< ‘ ” ‘ 4A 0< 2& 42B‘ “94”‘ 9 5‘ @ = 4 B0?‘ 42B‘ C5<N : :5

Z " # ' ' > % +

; ' "9< "? 422?' ' B ?)' 9 5' =45 2 ' 0 2-< ' A 55 C0< =9<2' 4' ? : 2-' 42B' A A : 04 ' / 2-' 94B' ; : 2"<B' "9< "9 2< '" = : 0B' 94G< C<<2' = 5< " ' 4@@<A'" "9< 5 " : 4" 2(42B' <@< G< "9< 9 ; 4-< ' "9< 2<=' 5 G< < -2(=9 5< A "<5"4" 25' ' C5<N : : 5' <5A<@'" " ' 9 5' A4" 2' =< < 400 "94" @ : 0B' C< B< <B)' : '" 8 4A 0< 2' <5 0G<B' " ' A : 59' 2' 9 5' 2 N : " : 5' A042' 2' 5A "< ' "9< 2<=' A 0 " @@B' 5 " : 4" 2' "94'" 94B' C<<2' @ <4"<B' C? ' < B 242BJ5' 4@@<55 2)' 9< A <"<D'" =45' <4B?' 4'" 942B(' 94 0<5' ' 94B' 2 ' 5 2<0.' <@ G< <B' ;' 9 5' 5'" "< ("942' 9< B <=' A' 4' 5<@ <'" A "<5'" 2' = 9 @9' 9< B<@04 <B' "94'" 9 5' 4CB @4" 2' 94B' C<<2' <D" "<B' ;' 9 ;' C?' "9 <4"5' ' C0 B59<B)' (2-' C< <' "9 5' B @ : ; <2'" 94B' <4@9<B' $4 5(4A 0< 2' 94B' = ""<2' " ' 9 5' C "9< ' (: 5(/ 2-' ' 0042B(0 < 2-' 9 ; ' "9< ! A42 59' @ = 2F '" 5' "9< < <' @0<4 ' "94'" 9< 94B' C<<2' 2"<2B 2-' 2' 42?' @45< " ' 8 : 5< " ' <@ -2 5< ' < B 242B(42B' "94'" "9< A "<5'" ' 94 0<5' ' 94B' 2 "9 2-' " ' B ' = "9' 9 5' B<@ 5 2)' '" =45(9 =<G< (=<0@ ; <B' 45' 4' : 5< : 0 @4 B' 2' "9< -4 ; <F 42B' : 4" =45' B <@"<B' 2 '" 20?' " ' 5<2B' "9< 0B' / 2-' " ' 4? 22<(C : '" " ' =4 B' B ?' 2' 9 5' ; 45"< J5' " 4 2)

<42 = 9 0< "9< ; A< ' B<@04 <B' 9 5' 2"<2" 2' ' G 5 " 2-' 4B B' 2' A< 5 2)' <' 5<2'" C< <' 9 ;' 9 5' 4 B< B< @4 ; A)' <2< 40 ! 4G4 ?(=9 ' G 5 "<B' "9< ? : 2-' / 2-(42B(45' 400 "9< ! A42 59' = "2<55<5' : 2 "<' 2' B<@04 2-(2 ; <B' 9 ;' "94'" 9 5' ; 45"< ' 2"<2B<B' " ' "4><' 9 ;' 2" ' 4G : (42B' " ' C<5" =' : A 2' 9 ;' "9<' 942B' ' "9<' 24A4 "<' A 2@<55 =9 ;' 9<' 94B' @ 4G<B' 45' 9 5' @ 25 ")' 20<55' 9<' 94B' <@< G<B' 5 ; <' 5 : @9' 455 : 42@<("9<' @4 : " : 5' ' < B 242B' = : 0B' ; 5'" @< "4 20?' 94G<' <m 4 2<B' ; ' A : "" 2-' 9 ; 5<0 ' 2' 9<' ; A< J5' A =<)' : '" 2' A 0' K ' 9<' =45' A< 5 : 4B<B' 2" ' 5<"" 2-' : '" " ' ; <<'" 9 5' ; -9"?' - : <5"(42B' =45' 2400?' 2B : @<B' " ' @ 55' "9<' B455 4' 2" ' ' <2@9' "< " ?)' %9<2' 9<' <4@9<B' 4? 22<' A 0' ! E 9<' =45' A : '" : 2B< ' - : 4 B(42B' 2 ; <B' "94'" 4A 0< 2' 94B' <5 0G<B' " ' B<A 5<' 9 ;' F C : '" "94'" ' 9<' = : 0B' 5 -2' 42' 25"42'" <5 -24" 2' ' "9<' ! A42 59' @ = 2(9<' 59 : 0B' <@< G<' 2' @ ; m A<254" 2' "9<' > 2-B ;' ' " : 4)

9< / 2-(@ 4G<2' "9 : -9' 9< =45(A0 : @><B' : A' @ : 4-< " ' < : 5< "9 5' ; 25" : 5' A A 540)' 9< < : A 2' "9< ; A< ' A B : @<B' 94 0<5' ' 42B' 9 5' c : <<2(=9 5<' 4 G40' 4'" 4? 22<' 94B' C<<2' " ; <B' 5 ' 45' " ' 00 =' "94'" ' "9< ' 5 2' C?' 4' <=' B4?5)' <' @ 2 2"<B' ' < B 242B' = "9' 9 5' A4 <2"5F 42B' 4' 04 ; <2"4C0< 5@<2< 00 =<B' 2' 9 5' A <5<2@<)' 2' C< 2-' " 0B' "94'" 9 5 4"9< ' =45' 5" 00' "9< 04 = : 0' / 2-(42B' "94'" 9< 9 ; 5<0 ' =45' 4' <C<0' = 9 ' 94B' C<<2' - : 0"?' ' 9 -9' " <45 2(' < B 242B' A <5< G<B' 4' 5 : 00<2' 5 0<2@<)' %9<2' 9< < : 5<B' " ' 5 -2' 4' B @ : ; <2'" B<@04 2-' "94'" 9< = "9B <=' 9 5' @04 ;' " ' "9< @ =2(9 5' 4"9< ' " <B' " ' 5" >< 9 ;' = "9' 9 5' @42<(42B' 9 5' ; "9< ' C : 5'" 2' = "9' 4' 5" 2-' ' 4C : 5< = "9?' ' 4' 59 = <)' 9< ; A< ' A : '" 42' <2B' " ' "9< 40"< @4" 2' C?' "9 : 5" 2-' ' < B 242B' : '" ' "9< ;)' <' "9<2' < <B' " ' 4CB @4"<' ' 9< =< ' 400 =<B' " ' <": 2' " ' 4B B(5 : 2 ; 2' "9< "<5' ' "9< <40 ; (42B' <D<@ : "<' 9 5' <2 : 2@ 4" 2' 2' B : <' ;)' : '" "9 5' = : 0B' 2 '" 94G<' 5 : "<B' 4A 0< 2J5' 5@9< ; <F 42B' "9<

Z Z' 7 ! * 3' ' % ' " && ' T

@< 5& 24 ; <B' 4 a' 42B' <04 B<& = "9' 4' 942B8' '4 " 00< ? ; <2& 2<B' "9<' "< 5' 42B' A< 59<B' = "9' "9< ;)

' ' 4' <=' B4?5' 4 "< ' "9<' 3 ' = # : 4'" 4'" 4B B& 42B' 95' ; :5"<' 4'" 4? 22<& 0 G<B' 2' 4' 5 '" ' 0J5' A4 4B 5<& ; 4- 2 2-' "94'" "9<?' 95B' ; 4B<' 42' <2B' ' 400' A<2' <5 5"42@<' " ' "9< ' = 00)' : 4'" 455: ; <B' "9<' A <5 B<2@?' ' 4' [6 : 2"4' ' <-<2@?&\' @9 5<2' ; ' 4 ; 2-' "9<' ; 5'" A0 4 '" ' "9<' 0B' @ 405' = 9 ' 94B' C<<2' @ : A"<B' C?' "=<2"?' ?<4 5' ' B ?J5' :0<)' 2' 4?' K ' 9<' 422 : 2@<B' " ' "9 5' C B?' "94'" "9< ; A< ' B<5 8' "9< ;' " ' 45>' ' 4' 2<=' / 2-& 42B' 5 : - -<5"<B' "94'" "9< A< 5 2' B<5 -24"<B' 59 :0B' C<' 6 5<A9' 24A4 "<& = 9 ' ' "9<' 045'" "= ' ?<4 5' 94B' C<<2' "9<' :0< ' ' 4A0<5)' 9<' @ 2"< ; A" C0<' 6 : 2"4' B B' 45 "9<?' =< <' B< <B& 42B' B : 0?' A<" " 2<B' "9<' ; A< ' "94'" 9 5' C "9< ' ; -9'" C<' - 42"<B' "9< ;' ' 45' 4' / 2-)' 2' B< ' "% ' 5 ; <' 5< ; C042@<' ' 24" 240' @ 25<2'" ; -9'" C<' B 5A04?<B& 4A 0< 2' B <=' : A' 4' 0 5'" ' 5 ; <' K ' ; 4-24"<5& = 9 ' =< <' B <@"<B' " ' A <5<2'" "9< ; 5<0G<5' 4'" 4? 22<' 42B' 5 : <' 2' A< 5 2' ' 6 5<A9J5' 4@@<A"42@<' ' "9<' "9 2<)' ' "9 5' C B?' 2 ' 0<55' "942' WK' =< <' C45<' 42B' =<4>' <2 : -9' " ' C<?' "9<' ; 42B4"<)' 2' 6 : 2<' K ' "9<' B<A : "4" 2' ; <'" "9<' ; A< ' 4'" 4? ; <' 42B' 4@@<A"<B' 6 5<A9' 45' "9< ' :0< & <@< G 2-' ; 42?' A ; 5<5' ' 0 C< 40' < ; 5' 42B' = 5<' - G< 242@<' ; ' "94'" =<00B2"<2" 2<B' A 2@<& = 9 ' 0 ""0<' ; B< 5" B' "9<' : 2<2G 4C0<' "45>' "94'" 9 5' C "9< ' 94B' ; A 5<B' : A 2' 9 ;)

: "& 0 2-' < <' 6 5<A9' 4A 0< 2' ' 94B' C<<2' A @04 ; <B' / 2-' ' ! A4 2' 42B' "9<' 2B <5& "9<' = 9 0<' @ : 2" ?' 94B' 04 <B' : A' 2" ' 25 : <@" 2)' "' " >' 5 ; <' " ; <' ' "9<' 2<=5' ' "9<' " <4@9< ?' 4'" 4? 22<& 00 = <B' C?' "94'" ' "9<' 3 ' = # " ' A<2<" 4"<' " ' "9<' < ; "< ' @ ; < 5' ' "9<' $<2 25 : 04)' : "& = 9<2' "9<' 24" 2' C<-42' " ' @ ; A <9<2B' "9<' 5 " : 4" 2& 4' = 0B' : "C <4>' ' A4" " @ 4-<' 00 = <B)' '" =45 2 '" 0<B' C?' "9<' 04 = : 0' 42B' @ 25" " : "<B' 4 : "9 " <5& = 9 ' ' "9<' ; 5'" A4 '" B 5- 4@<B' "9< ; 5<0G<5' C?' 4' @ = 4 B0?' " A B "?)' 9<' < < G<5@<2@<' @4 ; <' 8 ; ' C<0 = F' 42B' "9< 0<4B< 5' =< <' 2 2 @ 40' A< 5 25& 0 @40' ; 4-24"<5& 5" <<"HB< ; 4- - : <5& 42B' 5 ; <" ; <5' @0< @5)' 9<' ; G< ; <2'" =45' 5A 2"42< : 5& : 25<0 59& 42B' <@>0<55F' 2' "5' = : 2B<B' A B<& "9<' 24" 2' @940<2 - <B' 4A 0< 2' " ' @ ; C4"& = "9 : '" 42?' "9 : - 9'" ' "9<' @ 5<N : <2@<5& = "9 : '" @ : 2" 2-' : A' "5' = 2' <5 : @<5' ' "9 5<' ' "5' <2< ; ?)' G< ?' A G 2@<& 2' ; 42?' @45<5' <G< ?' " = 2& 4@"<B' ' "5<0)' : "& "9 : - 9' "9< ' <=45' 2 ' : 2 2' ' -42 54" 2& "9<' 54 ; < 5A '" 42 ; 4"<B' <G< ?' <- 2F' 42B' 400& = "9 : '" <D@<A" 2& 5<' 2' 4 ; 5' C<"=<<2' 4?' ! Z' 42B' 6 : 2<' K)' '" =45' 42 : 294AA?' <4" : ' ' "9<' 25 ; <@" 2' "94'" 2' ; 42?' A04@<5' '" =45' 5"4 2<B' = "9' ; 4554@ <)' 9<' A A : 04@<' =45' 2@<25<B' 4-4 25'" "5' 04"<' : 0< 5' 40 ; 5'" 45' ; : @9' 45' 4-4 25'" "9<' ' <2@9)' 0B' + ' ' B ?& @ 0 2<05' = 9 ' < : 5<B' " ' 0<4B' "9< ' <- ; <2"5' 4-4 25'" 4A 0< 2& @ 405' = 9 ' 94B' 59 = 2' 6<40' 2' @4 ? 2-' : '" : 4"J5' B< 5& =< <' 455455 24"<B' 2' 8 ' 5 B<5)' 2' 40<2@ 4' 4' A <5'" 0<B' : '" 4' C42B' ' : 425' = 9 ' ; : B< <B' "9<' = 9 0<' ' "9<' ' <2@9' ; < @942"5' <5 B<2'" 2' "94'" - <4'" 5<4A ")

"' " >' 5 ; <' =<<>5' ' <G<2' "9<' : B ; <2"5' ' 4' G< 2 ; <2'" " ' C<

Z ' > % + 1 ' & ' 5 ' ' ' = + , ' I5 5

"9< ; A< ' -42 5<B' " 0< @<5' =9 @9' = ><B' "9< ' =4?' " ' 4B B&
(5C 2& 42B' 4 @<0 24' B: 2-' "9< = 2"< ' ' K Y & 9< 9 8 ' 2 "' B 4=2'
:A 2' "9< G<"< 42' @ A5' =9 @9' 04?' 2' < ; 42?') 6:2 "J5' @ A5& 2B<<B&
=45' ' - B' ; 4"< 40& C< 2-' @ ; A 5<B' ' 0B' C4""40 25' A @><B' ;'
"9< -4 5 25' ' =<5"< 2' ' 42@<') :"' "9< @ A5' ' 2@<?& :A 2"&
42B' <55 < <5' =< < 4' 94A C4a4 B' 455< ; C0?' ' 5<@ 2B 4"<' " A5' 42B
2<=0? -42 5<B' A G 5 240' :2 "5') 9<?' 2@0:B<B' 20?' 4C :"' U ' ;<2
' 0B' ' <2@9' <- ; <2"5F' C:"' :2B' " 8 ' 2:@0<:5' =< < -4"9< <B' 5 ;<
KU& ' != 55& < ; 42& 42B' " ' 4:D 0 4 <5& 42B' 2 ' 0<55' "942' & '
@ 25@ A"5' 'K Y& 945" 0?' -42 5<B' 2' [A G 5 240' <- ; <2"5&\' [0<- 25'
' <5< G<&\' 42B' ' '

9< ; A< ' 94B' @ 00<@"<B' 4' G< ?' 4='42B' 00 @ ; A4@"<B' 4 ; ?F 9<
2<D"' A @<<B<B' " ' B 5A 5< ' "' 2' ; 5"4><2' 0 2<5') <' 94B' ; 4B<' :A'
9 5' ; 2B' "94"' "9< !A; 59' 25: <@" 2' =45' 4' ; < < B459' 2' "9< A42&
"9< = >' ' ; 2>5' 42B' C42B "") 9< 5:AA <55 2' ' "' = :0B' C< 4'
; < < ; 4""< ' 'A 0@<F 9< ; 4- 2<B' "94"' 4' <=' 0? 2-' @ 0: ; 25' = :0B'
C< 4C0<" ' 5@ :' "9< 25: -<2"' B 5" @"5' ; B' "4><A 55<55 2' A ' "9< @9 8'
5" 4"<- @40' A 2"5' = "9 :"' ; :B ' B 0@:0"?') 5' B< 5' <4B' 45' 5 ; <'
5 04"<B' B # 4"9< ' " 42' 4' 24" 240' 5 2-& 94B' " ' C< 5:AA <55<B)'
%9 0<' <55 < <5' 42B' 9 5' @ A5' =< < " ' ><<A' A<2' "9< 4B' L ;' : - 5'
" ' 4B B& 42B' " ' B<"<@9' 4' @<' " ' 5:CB:<"9< A G 2@<' ' 4- 2&"= '
<DA<B " 25' =< < " ' C< 5<2"' :"' 8 ;' "9< @4A "40& "9< 2< " ' <B:@<
!<G 00< 42B' 4B a& "9< "9< ' " ' @ 2N:< ' 40 ; @ 4') 9< 5"' ' "9<5<
@ 0:2 ; 5& K & H 5" 2-& =45' " ' C< 0<B' C?' :A 2"F "9< 5<@ 2B& Y '
5" 2-& =45' - G<2' " ' 2@<?') "9' =< < @ ; A 5<B' <2" <0?' '@ 25@ A"'
C4""40 25' 42B' != 55 4:D 0 4 <5& = "9 :"' 42?' 5" <2 2-' 'G<"< 42' " A5)
9< B<5A4"@9' ' "9< "= ' <DA<B " 25' ;' 4B B' " >' A04@< 2'
4?' Z' 42B' 6:2< Z' <5A<@" G<0?& 42B' =45' "9< 045"' <D<@:" G< B< '@42 <B'
:"' C?' : 4"' 4"' 9 5' ; 45"< J5' C<9<5") < <00' 00' ' 4' <G< ' 4' <='
B4?5' 04"< & 42B' <": 2<B&" ' ' 42@<F 9 5' A04@< =45' "4><2' C?' !4G4 ?& "9<
C<" 4?< ' ' / 2-' '< B 242B& 42' @< ' =9 00?' 2@ ; A<"<2"' " ' 4@< "9<
"9 <4"<2 2-' 5 ":4" 2' "94"' =45' - 4B:400?' B<G<0 A 2-' "<<0)

2@<?' A455<B' "9< ; :2"4 25' ' :<2@4' = "9 :"' AA 5 " 2& 42B'
; <"' = "9' 2 ' <5 5"42@<' " 00' 9< 94B' <4@9<B' "9< C B< 5' ' "9< > 2-B ;'
' 40<2@ 4)' 9< < 9< =45' "= @< AA 5<B& 2' "9< B< 0<5' "94"' 0<B' B =2'
" ' "9< 59 < A04 2& C?' 42' <-:04 ' ; 455' 2<=' 0<G <5& =9 @9' 9< "9 :5"'
45 B<' = "9' <45<) %9<2' 9< <4@9<B' "9< @ "?' ' 40<2@ 4& 9< ; B' "'
A4@><B' = "9' ; 42?' "9 :542B5' @ ; C4"42"5& 2@0:B 2-' 5 ; < <-:04 '
" A5& 42B' :-90?' " <B' = "9' ; 42?' C4""< <5' 42B' <4 "9= >5) <
5>8' "= ' 4""< ; A"5' " ' 5" ; ' "9< A04@< 6:2< E& 0 5"' K ' ; <2& 42B'
54=' "94"' "' @ :0B' 2 "' C< "4><2' = "9 :"' 4' C4""< 2-' " 4 2' 42B' 4' <-:04 '
5 <-<) ?' 4' 4A B' <" <4"' 9< <0:B<B' 9 5' 4BG< 54 <5& 42B' B <=' C4@>'
" ' "9< G @ 2 "?' ' 4B B' 6:0?' KUE)

< ?' B < <2"' =45' "9< 4"<' ' :A 2")' <' " & 0 >< R; @<?& ; <"'
= "9' 0 ""0<' AA 5 " 2' B: 2-' "9< 5"' B4?5' ' 9 5' ; ; @9) 9< B< 0<5

Z % ! + $ + , ! + I

; 4B< 4 @ 2G<2" 2 = "9 45"4 5 =9< <C? 9< 5" A : 04"<B "94" 2 20? 9 5 B G 5 2 C : "94" 9 5 0 < : "<242"6 59 : 0B @4A " : 04"< 42B C< 5 C4@> " ' 42@<) 9 5 =45 : 2 : 5" 4C0< @ 2B : @"F C : 5" 00 ; < : 2 : 5" 4C0< =45 "94" <B<0 =9 "4 ; <0? @4 ; < C4@> 42B 04 B B =2 9 5 4 ; 5 =9<2 9< ; -9" <45 0? 94G< ; 4 @9<B " 4B B 6 : 2< E) 2 400 K & : 2= : 2B@B ; <2 5 : <2B< <BF ; < "942 94B C<<2 0 5" 2 "9< -9" 2 -) %9<2 "9< <2B =< <5<@ : <B "9< 6 : 2"4 ! <G 00< B<"4 2<B0"9< ; 400 42B 2<G< 400 =<B "9< ; " < ; " ' 42@<

0 / 5 B 545"< "9< = 5" @9<@> "94" C< ' <2@9 4 ; 5 94B 5 : < <B 5 2@< <2 : @4A " : 04"<B 2 ! 8 A " 2 2< ?<4 5 C< <94B ; ; <25< < <@" 2 20? 2 ! A4 2 C : " 400 G< : A< 9< <5A 25 C 0 "? " ; : 5" C< B G B<B C<"=<<2 "9< ; A< 9 ; 5<0 : A 2"42B <B<0) 4A 0< 2 : 2B< 4 405< B<4 "9< ! A42 59 5 4 <2-"9 94B 5<2" : " 42 4 ; ? " 5 ; 400 42B " = 4=' " 4@@ ; A0 59 5 : @9 4 "45> 45 "9< @ 2N : <5" 2B B : 5 4F : A 2" C4B 59 =2 C "9 2@4A4@ "? 42B =42" ; 40 @ : 4 -<F <B<05 " A B "? 42B 04@> 2 " 4" G< 94B B : C0<B "9< B 545"<) 9< ; A< 4@@ : 5<B < ; C "9 @ =4 B @< 42B C <45 2 42B C4B "9< ; " <B C< < 4 ; 0 "4 ? @ ; ; 55 2 =9 @9 : 2B "9< ; - : 0"? @ ; 240 2<-0 -<2@< 42B [5 -2 2- 4 @4A " : 04" 2 @ 2"4 2 2- 594 ; < : 0 @ 2B " 25 \ C : " 2 "9 2- ; <) : A 2" =45 ; A 5 2<B " 00 K KZF <B<0 =45 A4 B 2<B 4 "< 4 <= ? <4 5 42B 4-4 2 < ; A0 ?<B)

9< 5" <5 : 0" 4?0<2 =45 "94" / 2- 6 5<A9 42B ! 4G4 ?6 @ 2m 5 B< 2- "9< @ <5 25 : @ <2" " ; 4 2"4 2 5 : @9 42 4BG42@<B A 5 " 2 45 "9< @4A "40 945" 0? <G4@ : 4"<B 4B B : - : 5" KE 42B B B 2 " 940" " 00 "9<? 94B <@ 55<B "9< C) <42 = 9 0< ; " "9< 5< <5 A< 4" 25 94B C<<2 2 A - <55) < ! A42 59 4 ; ? 40 @ 4 : 2B< <2< 40 04>< 94B B<5@<2B<B ; "5 ; : 2"4 25 2" "9< A04 25 0B 45" 0<6 = "9 "9< 2"<2" 2 @ : "" 2- "9< @ ; ; : 2 @4" 25 C<"=<<2 4B B 4 ; : - 5) 4 5940 <55 < <5 =9 5< @ A5 94B C<<2 " 0B C? 4A 0< 2 " A "<@" "94" 0 2<6 ; <" 9 ; 4" <B 24 B< ! <@ 2 6 : 0? KZ 42B 2 0 @"<B 4 @ ; A0<"< B< <4" : A 2 "9< 40 @ 425 "9 : -9 "9<? ; : 5"< <B & ; <2 " 9 5 K &) 9 5 G @" ?6 9 =<G< 6 94B 2 : "9< < <@" "942 " 5<@ : < / 2- 6 5<A9 4 54 < <" <4" ; 4B BF : A 2"05 B 545"< B<A G<B <55 < <5 "9< A = < 00 = 2- : A 9 5 5 : @@<55)

9< 5<@ 2B 2B<A<2B<2" @4 ; A4 -2 4- 2- 4" "9 5 ; ; <2" =45 "94" =9 @9 @<2" <B 4" ! 4 4- 554. " =45 "9< ; 5" @ <B "4C0< " "9< ! A42 4 B5 400 "9< A< 4" 25 "9<? 5 : ; ; < K) 9< > 2 - B ; 4- 2 =45 40 ; 5" B<5" " : "< <- : 04 " A5F 20? 4C : " K " 4 2<B ; <2 =< < 4G4 04C0< =9<2 "9< <G 0 : " 2 C >< : ") : " 6 5<A9 $404 D 4 ? : 2- 42B 4 ; C " : 5 4BG<2" : < 6 =9 94B 0<B "9< 5 2- 42B C<<2 540 : "8 45 @4A"4 2 -<2< 40 @ 00<@"<B 4 @ 25 B< 4C0< C B? 940 4 ; <B A<4542"5 42B " =25 0> 4" ! 4 4- 554 42B = "9 "9< ; ; 4B< 9<4B 4-4 25" "9< KU ; <2 : 2B< <2< 405 < B < 42B 8< <CG < <52 : <""<5 =9 =< < B<"4@9<B " 5 : CB : < 4- 2) 5 B< <2@< ! 4 4- 554 6 : 2< KU 3 : - : 5" K E =45 42 <D" 4 B 24 ? <4") 9< ' <2 94G 2- C ><2

" A5 =< < 2 " 2@0 2<B " 4@< 42 "9< -<2< 40 4@" 2F 42B 9< 54=
2 C<""< =4? H ! &)
40 ? ; A0<& G< ?<B 4" 2B 2- 9 ; 5<0 B @"4" 2- "< ; 5 < < 9< 94B
C<<2 "= B4?5 459 <& <4-< 0?' 4@@<A"<B "9< B<4 4 @ 2G<2" 2& <
=45 :5" <B 2 4@@<A" 2- 6:2 "05 < F " ; < %45 ; A "42@<F 42B
"9< ' <2@9 ; -9"& B G<2 " B<5A4 & 94G< : 2<B (5C 2 42B ; 4B<
4 0 2- 42B B<5A< 4"< B< <2@<) :" ! <=< =<4>0?' @ 2@<B<B <G< ?
B< ; 42B "94" =45 ; 4B< C?' "9< ' <2@9 2<- " 4" 5& 2@0:B 2- 5<G< 40
"0 4" =< < ; 5" <25 G< " "9< $ ": - : <5<F 4)-) 9< 400 =<B "9< ' <2RB
" B<A4 " 04B<2 2 "9< ; 5" 594 ; <0<55 459 2 = "9 "9< A0:2B< A404@<5& ; :5<: ; 5& 42B @9: @9<5& 42B - :4 42"<<B ; ; : 2 "? " 24" G<
" 4 " 5) 2 : - : 5"0 "9 5 4 ; :5 2G<2" 2 2" 4 3 405<0?
5 @400<B& " =45 2< "9< B 5@:55<B 2 5 -2<B 2 "94" A0<4542" 5A " 3
=45 <D<@:"<B) < <"9< 2<D" ; 2"9 =45 :"& U& ' <2@9 " A5
94B C<<2 59 AA<B :" "$ ": -40F 42B " <=9 0< > 2-B ; =45 B<0 G< <B)
" =45 2 =A 55 C0<" "9 2> C 2- 2-4 B " !A4 2)
:" 2< "9< $40 ? ; A0< 2 : 4 B =45 B<5" 2<B " 0<4B "9< G @" 5
; < 2" "9<:A042B5 45" 0<) %9<2 "9< 2<=5 "9< 2G<2" 2
=45 <@< G<B 2 2-042B& :2 G< 540 2B -24" 2 =45 <DA <55<B) " =45
"9 :-9" "94" 40 ? ; A0< 94B 0<" e "9< ' <2@9 " <45 0?& 42B "94"
9< ; -9" 94G< @<B "9< ; " :2@ 2B " 240 5: <2B<) (<""< 5 ;
@< 5 =9 @ ; A04 2<B "9< =4? 2 =9 @9 9< A: 5: " 4" ; <
8 B C<<2 R9<@>8& 42B @ ; A04 2"5 ; "9< $ ": - :<5< A G 5 240
- G< 2 ; <2"& 4BB<B :<0 " "9< 04 ; <5) 00 "9 << " 59 -<2< 405
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59 :0B C< "4><2) :"& =9 0< "9< "= 5<2 -<2< 405 =< < 2<G< B<m
5A4"@9<B 2 4@" G< 5< G @<4-4 2& %<00<50<?& =9 5<@ 2B :@" 94B @ 2" 45"<B
5 5A0<2B B0? = "9 "94" 9 5 5:A< 5& =45 5<2" C4@>" " $ ": 80 45
@ ; ; 42B< 2 @9 < 2 "9< <25: 2-5A 2-)
:@9 94B 94AA<2<B C< < ! "9: <5: ; <B 9 5 A04@< 4" "9<
9<4B 4 " 59 4 ; ?) e 2- 6 5<A9 42B !4G4 ?' 94B <G4@:4"<B
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9 5 0 2- <" <4" @4:5<B 40 ; 5" 45 ; :@9 2B -24" 2 2 4A 0< 2J5 C <45"
45 :A 2"J5 5: <2B<) < 94B 4" 5" B <@"<B 6 5<A9" 9 0B 2 "
4B B 4" 400 @ 5"5& "9<2 " 5"4?9 5 <" <4" 4" 42B4 42B 4004B 0 B)
:" C "9 9 5 B<5A4"@9<5 4 G<B " 04"<F 42B& C?' :-:5" KU& "9<
<;4 25 "9< 4 ;? ! A4 2& 5" 00 2<4 0?' Y & 5" 2-& =< < @ 2m
@<2" 4"<B C<"=<<2 42B4 42B 04- 2 "9< C) 9< ; A< &
2 9<4 2- "9< 2<=5 4?0<2& 94B B< <B "9 << G<"< 42 @ A5 "9<
4 ; ? < ; 42?&"9 5< @" & " < & 42B <?&" ; 4 @9 !A4 2&
42B 94B B 4=2 " -<"9< "9< < 2 @< ; <2"5 ; G4 :5 @ ; < 5 "9<
; A <) < 94B 9 A<B "94" 6 5<A9 42B !4G4 ?' = :0B 9 0B :" 2 5 ; <
4BG42@<B A 5 " 2 " 00 "9 5< 5:@@ : 5 4 G<B) :" 400 5:@9 9 A<5 =< <

+' "9< 5: <2B<' +' 4B B)' <' >2<=' "94"' 9 5' ; < <' =45' 4' B42-<2A:5'
2<& 42B' = "<' " ' 4 B' "94"' [' C "9' ? :' 42B' ; <& C G -9' =<' ; 4?' 0 >'
C -& 42B' B<"< ; 2<' " ' -<"' <G< ?"9 2-' =4 B& ?<"' %<' ; :5"' 2<G<' 0 5<'
5 -9"' ' "9 5& "94"' 4"' 42?' ; ; <2"' 4 4 5' ; 4?' "4><' "C<' " : 2' "94"' <2B< 5
"' 2<@<554 ?' " ' <" <4")\' 9<?' ; :5"' 4BG42@<' [C B0<' 2' 942B\' 42B' <G<'
<4B?' " ' 5=< G<' ' " ' "9<' <4)' <' ; 4 @9<B' ;' !404 ; 42@4' 2'
<@< ; C< ' F "= ' B4?5' 04"< & 9<' 0<4 2"' ;' 4' @4A": <B' B<5A4"@9' "94"'
"9<' ; A< ' =45' :24=4 <' 9 5' A <5<2@<& 42B' "94"' ! :0"' =45' 0? 2-' 2'
42' 5 04"<B' A 5 " 2' 2' "9<' 4 2' G< & = "9' 0<55' "942' 8 & ' ; <2)'
<' "9< <:A 2' <5 0G<B' " ' @942-<' 9 5' B <@" 2& 42B' " ' <2B<4G :' " '
5: A 5<' 42B' B< <4"' ! :0"' C< <' 9<' @ :0B' C<' < 2 @<B)' : 2 2-' 2 "9&
9<' =45' 2<B' C?' 4 B' 2' <@< ; C< ' & = 9 @9' 4 5<B' 9 5' @<' " ' 4C :"'
"& ' ; <2)' <' B G<' 2' "9<' ' <2@9' @4G40 ?' 2' 5<G< 40' 5:@@<55 :0
@ ; C4"5& 42B' 2' <@< ; C< ' ' 04?' 4"' !494-:2' @0 5<' 2' 2"' ' ! :0")'
9<' 4 N: 5' ' 4' / ; 424& 0: <J5 5:@@<55 & =45' 50 =0?' C 2- 2-' :A'
"9<' B 5 -42 5<B' = <@>5' ' "9<' 4 ; ?' ' 40 @ 4' " ' 9 5' 4 B)
' C4""0<' = :0B' 94G<' 00 =<B' 2<D"' B4?& 94B' 2 "' <' <@< G<B' ; '
4' !A42 59' 5 : @<& 2' "9<' 4 "< ; ; ' ' "9<' B& "9<' 2<=5' "94"' 4A 0< 2'
94B' 4"' 045"' 9<4 B' ' 9 5' =9< <4C :"5& 2B' 94B' 5"4 "<B' ; ' 4 8 B' 2'
A: 5: "' ' 9 ;' = "9' "9<' ; 4 2' C B?' ' 9 5' 4 ; ?)' % "9 :"' 4' ; ; <2"05
9<5 "4" 2& "9<' " 59' -<2< 40' 4@<B' 9 5' @ 0: ; 25' " ' "9<' <4 & 42B' 50 AA<B'
' =<5"=4 B' 2' "9<' 4B' " ' <24G<2"<' 42B' 5" -4)' <' 94B' "9 =2'
:A' 9 5' C45<' 2' $ ": -40& 42B' =45' 2"<2B 2-' " ' <" <4"' " ' - ' 42B'
:224)' <' B B' 2 "' 5"4 "' 4' ; 2:"<' " ' 5 2)' 4A 0< 2& 2' <@< G 2-'
"4 B?' C:"' @< "4 2' 2<=5' ' "9<' 4BG42@<' ' "9<' 2-0 59' 4 ; ?' 4-4 25"' ! :0"&
94B' 4"' 2@<' - G<2' B< 5' <@ ; 2C<' K 8 E' "9<' - <4"< ' A4 "' '
"9<' " A5' 4"' 4B B& 2 "' 0<55' "942' Z & ' 54C <5' 42B' C4? 2<"5& 59 :0B'
945"<2' C?' @<B' ; 4 @9<5' " ' "9 =' "9< ; 5<0G<5' :A 2' <J5' <4 & 42B'
@:"' 9 ;' ' ; ' 9 5' <" <4"' 2' $ ": -40' ' 40 @ 4)' 9<' 5 8 "' ' "9<'
<B @ 4"5' 2' "9<' B 5"42@<' 94B' 4"' 2@<' B 4=2' 9 ;' ' ; ' 400' 9 5' "9< '
A0425F 42B' "9<' B<4' ' @4A": 2-' 4' =9 0<' " 59' 4 ; ?' <D@ "<B' 9 ;' " '
40 ; 5"' <2a <B' <D< " 25)' <' B G<' 9 5' " A5' 4@ 55' "9<' 52 =' ' "9<'
:4B4 4 ; 4' A455' 2' "9<' ; B5"' ' 4' C0 aa4 B' =9 @9' 5 ; "<' B =2' 9 5<' 42B'
; 42& 42B' : -<B' "9< ; ' 4@ 55' "9<' A0 ; 25' ' 0B' 45" 0<' 4"' 4' C <4>2<@>'
A4@<)' :"' <' =45' " ' N: @>' ' 9 ;)' %9<2' "9<' @4G40 ?' ' "9<'
; A< J5 G42 -:4 B' <4@9<B' "9<' 0 2<' ' "9<' 504' 2' <@< ; C< ' & "9<'
" 59' =4 <' 54 <0?' 4@ 55' "9<' G< ' 42B' :"' ' B42-<)' 5' "9<' ' <2@9'
A <55<B' 2& (B' $4-<"' ": 2<B' C4@>' = "9' 9 5' 9 :554 5& 42B' @:"' " ' A <@<5'
"9<' ' B' ' ' "9<' ; A< 40' :4 B' 4"' <24G<9"<' <@< ; C< ' WE&
8A": 2-' (< <CG < <52 :<""<5& "9< ' @ ; ; 42B< & 42B' ; 42?' ' 9 5' ; <2)
9<' ; A< ' : -<B' 2' "9<' A: 5: "' ' "= ' B4?5' ; <& C:"' "9 <=' "'
:A' 2' B 5-:5"' 4"' 5" -4' 2' 642:4 ?' K&K W)' "' 5' :5:400?' 54 B' "94"'
9<' ": 2<B' C4@>' C<@4:5<' ' 2<=5' <@< G<B' @ 2@< 2 2-' "9<' "9 <4"<2 2-'
4"" ": B<' ' :5" 4)' 9 5' =45' "9<' @ 40' G <=F C:"' "' 5<< ; 5' A C4C0<'
"94"' <A "5' ' 2" -:<5' 4"' $4 5& 2' =9 @9' ' :@98& 5B0<? 4:B& 42B

K W6 4 5 1 % . Z8Y

= "9 %<00 2-" 2 "94" [! 6 92 "<5 < =45 "94" 9< B B 2 " >2 = =94" 9 5 ; <2 @ :0B B &\ 42B 400 = "94" 9< B G< "9< ; " 45" 2 "9< ; 4 @9 ; 5" "8 " :224& = "9 - <4" 8N0" 2 - 0 55 ; <2 0 5" C? "9< =4?& 5 ; < 2 B :C" A< 59<B = 2 - " "9< = 2B 5@ A0 2<& C : " ; < C< ; :5< "9<?" =< < =<4 <B C<? 2B "9< 0 ; "5 9": 242 <2B: 42@< : " "9 5 =45 4 B <4A A @< " A4? = <B 2 - 4A 0< 285 - 240 A042 "9< @ 2N: <5" "9< $<2 25: 04& : 5" =9<2 9< 9 ; 5<0 =45 2 "9< 5A " 42B 4C0< " @ ; C 2< "9< ; G< ; <2"5 400 "9< ' <2@9 @ A5 2 4 =4? "94" %45 2<G< 4-4 A A 55 C0<)

"< 4C42B 2 2 - "9< A: 5: " < " ! :0" 42B <?& "9< ; A< < ": 2<B " $ 42@<) 5 - <4" = "9< @4A": < 8 < " 59 4 ; ?& 94B 4 0<B& 42B "9< A <@"<B 2G15 2 $ ": -40 42B 2B40: 5 4 94B C<<2 A 5"A 2<BF C: "& 2 "9< ; 4 2& 9< =45 2 " B 5@ 2"<2"<B = "9 "9< <5: 0"5 9 5 @4 ; A4 -2) 9< 5A " "9< !A42 4 B5 3 5 9< 42@ <B 3 =45 @ ; A0<"<0? C ><2) [1 69 ! 8! B ! % 9< = "< " 2< 9 5 ; 2 5"< 5F 42B 9< <": 2<B " 5: AA <55 2" - :<5 2 $4 5 42B " =4"@9 :5" 4) <5 B G< 5 2 94B& 9 =<G< & 400 =<B " ; < "9< !A42 4 B5 " 400?& 42B 94B 5" AA<B "9< ' <2@9 4BG42@< "= ; 2"95) ?"94" " ; < "9< 594""< <B !A42 59 4 ; <5 =< < 2@< ; < < -42 5<B& 42B 4C0< " <5: ; < "9< 5": CC 2 " "<2 :25: @@<55 " 0 <5 5"42@<) 9< !A42 59 4 4 =45 4 ; C< 2 - [2<4 0?4" 42 <2B&\ 45 4A 0< 2 5: AA 5<B) < 94B ?<" " B 5@ G< "94" " B< <4" 4 !A42 59 4 ; ? =45 <45?& C: " " B<5" ? " B @: 0") 9< :"<B @< B 5A< 5<B& " >" " "9< 9 005& 42B <455< ; C0<B 4-4 2 " - G< "9< " :C0<) !A4 2 =45 2 " "9< @ :2" ?" C< 5: CB: <B C?4 5 2-0< 6<24 :5"< 0 "a) 9< 0 55 4B B @ :2"<B 0 ""0< 2 "9 2 - F <G< ?A G 2@< @ 2" 2: <B " -9" "5 =2 942B F 42B 2 <- 2 @ :0B C< @ 25 B< <B @ 2N: < <B "94" =45 2 " 9<0B B =2 C? 4 ' <2@9 -4 5 2 A042 "<B 4" <G< ? @ 55 4B)

: 2 - "9< ; B= 2"< K W& <5 B G< 5 2 94B @4: 5<B "9< 5: 5A<25 2 "9< ' <2@9 A< 4" 25 2 400 N: 4 "< 5 54G< "= & 4- 2 42B 4"40 2 4& "9< "= <- 25 ; =9 @9 2 " A5 94B C<<2 = "9 B 4=2 "9< 4@< " :224) (422<5 94B C<<2 5<2" = "9 "= @ A5 " "4>< !4 4- 554& 2" =9 @9 $404 X 94B = "9B ; =2 9 5 A4 " "9< 4 ; ? "94" 94B C<<2 : "<B 4" : B<04) 9< 5 <-< C<-42 2 <@< ; C< & K & 42B 045"<B <5 4@"0? "= ; 2"95) ' 408 ." =45 2 "5" 4"<- 5" 42B ; 4B< 2: ; < :5 C0: 2B< 5 B< "4 0& C: " 9< =45 C5" 24"< 42B <2"9 :5 45" @F 42B 9 5 A 5 " 2 =45 4 "5" 2-< "942 " 94B C<<2 2 "9< A <@<B 2 - 6: 0? 42B : - :5") < 94B 2<4 0? Z & ; < 0<55 -42 5<B - 9" 2 - ; <2F 42B "9< 0 ; 5? =400 5 9 5 @ "? 94B C<<2 5" <2 - "9<2<B C? <4 "9= >5 42B C4""< <5 5 2@< "9< 5" 5 <-<) 9< 4- 2<5< : - 9" = "9 "9< : 5: 40 C5" 24@?F 42B " =45 2 " " 00 642: 4 ? Y&K W& "94" "9< ' <2@9 5: @@<<B<B 2 C <4> 2 - "9 : - 9 "9< : "< ! 4 4- 554) 9 <<=<<>5 B<4B0? 5" <<" -9" 2 - 5" 00 < ; 4 2<B C< < "9< ;) (4 ; <5 20? = 2 9 5 =4? C? C0 = 2 - : A 9 :5< 4 "< 9 :5<& 42B 5" ; 2 - 5" <<" 4 "<

8X)

ZZ ' . ' ' . & 7 ' % ' , ' I W

5" <<"') % 9<2' "9<' A04@<' 5: <2B< <B&' "' =45' C<@4:5<' <' 42B' 5= B&' A<5" 0<2@<' 42B' 4 ; 2<&' 94B' B<5" ?<B' "9<' -4 5 2)' G<' & ' -9" 2-' ; <2&' = "9' 5 ; <' & ' ' "9<' A A:04@<&' 94B' A< 59<B)' <5A< 4"<' C:"' 00 -42 5<B' A4" " 5 ; ' 94B' 4 0<B' =9<2' A ""<B' 4-4 25"' ; 0 "4 ?' 5@ <2@<') :"' "' =45' @0<4 ' "94"' "9<' A< A0<' =9 ' @ :0B' ; 4><' 5:@9' 4' 5"42B' =<' 2 "' 0 ><0?' " ' C<@ ; <' "9<' A455 G<' 5:C <@"5' '"9<' ' <2@9' ; A<)

4"40 2 4' ; 4""< 5' =<2"' 2 ' 0<55' C4B0?' '"9<' !A42 4 B5)' :G 2' !4 2" ? & =9 ;' "9<' ; A< ' 94B' 5<2"' " ' <0 <G<' :9<5 ; <' 42B' 9 5' C<>4-:< <B' 4 ; ?& @ ; ; <2@<B' 9 5' A< 4" G<' 4@" 2' C?' "4> 2-' 545' <@< ; C<' UE&' 42B' "9<2' A:59<B' "9 :-9' "9<' ; ; "825' " ' 5:@@ :' 4 @<0 24)' <' :"<B' <B 2-&' "9<' G @" ' ' 4?0<2& 4"' 4 B4B<:' 2' <@< ; C<' K &' 42B' @:"' 9 5' =4?' "9 :-9' " ' 2' :9<5 ; <)' 9< ' :2 "<B' @<5' "9<2' 5400 <B' :"' 42B' C<4"' "9<' 4 ; ?' ' 4"40 2 4' 4"' 0 25' B<' <?' <@< ; C<' KE' :5"' :"5 B<' 4 @<0 24)' G<2' "9<2' <B 2-J5' 5A "' =45' 2 "' C ><2)' 400? 2-' 9 5' " A5& 9<' " >' "9<' <25 G<&' C:"' 9<' =45' B<' <4"<B' C?' !4 2" ? ' '4' "9 B' " ; <' 4"' 4 05' ' <C :4 ?' K WE)' 2' "9 5' 045"' -9"' <B 2-' =45' ; "400?' = :2B<B' 9 5' C ><2' 9 5"' 59:"' "5<0' :A' 2' 4 4- 24' " >' " ' "9<' 9 005& 0<4G 2-' !4 2" ' <<' " ' @ ; m ; <2@<' "9<' 5 <-<' ' < 24&' "9<' - <4"' " <55' @ ; ; 42B 2-' "9<' 4B' ;' "9<' ' <2@9' 2" < ' " ' 4 @<0 24)

8 <42=9 0<' "9<' !A42 59' 0 2<' 'B< <2@<' =45' C< 2-' <@ 25" :@"<B)' 9<' = <@>5' ' 45"42 5J' 0B' 4 ; ?' 94B' -4"9< <B' 2' (4' 42@94& 42B' " >' "9< ' A 5"' 4"' "9<' "' ' "9<' A455<5' ' "9<' ! < 4' <24& :2B< ' <2< 40' 4 "4 40)' 9<' 5" 00' ; <' B 04A B4"<B' B G 5 25' G42N:59<B' 4"' 4 ; 240' 42B' "9<' ! ; 5 < 4' 400 <B' C<9 2B' "9<' 4-:5)' 9<?' =< <' 2' 4' <4 :0' 5"4"<' ' 2B 5@ A0 2<& 42B' 94B' ; : B< <B' "9< ' -<2< 40' !42' 6:42' 2' 4' = 0B' @94 -<' ' " <45 2' C:"' "9< ' 2<=' @ ; ; 428 & :<5"4& 4' ; 5< 42B' 2@4A4C0<' C:"' @ : 4-< :5' G<"< 42& <B:@<B' "9< ; ' " ' B< ' C?' 4' 5< <5' ' ; 0 "4 ?' <D<@:" 25)' 04><J5' 0B' 4 ; ?' ' 40 @ 4& 2 =' :2B< ' (4' ; 424& 4 "< ' A4 " 2-' ; ' <J5' <" <4" 2-' @<' 4"' 5" -4& 94B' <" <B' 2" ' "9<' ; ; "4 25' 42B' =45' < -42 5 2-' 4"' <25<)' 04><' 9 ; 5<0' 94B' C<<2' 5<2"' " ' 40<2@ 4& 42B' =45' C:5?' 2' -<"" 2-' " -<"9<' ' 4' <59' 4 ; ?' 2' "94"' < " 0<' 42B' =<00 A< A0<B' A G 2@<)' 2@0:B 2-' "9< ' 0<G <5' 2' "9<' 5": 45' 42B' 2B40:5 4& "9<' ! :A < ; <' 6:2" 4& =9 @9' 94B' 2 =' <5" 4C0 59<B' "5' 5<4"' 4"' !<G 00<& @ :0B' A04@<' 5 ; <' K & ' ; <2' 2' "9<' <0B' 2' 4 @9& K W)' * :"' ; <' ; A "42"& 2' "9<' <2B& "942' "9<' 5: G G40' ' 42?' !A42 59' 4 ; ?' =45' "9<' 4@"' "94"' W ' " 59' " A5' 5" 00' < ; 4 2<B' 2' $ "':-40& 9<5<' =< <' "9<' C4""40 25' "94"' 94B' C<<2' 0< "' 2' 0 5C 2' =9<2' < ; 4 @9<B' " ' !404 ; 42@4' 2' "9<' A <@<B 2-' 4:": ; 2)' 9< ' G< ?' @4:" :5' -<2< 40& ! ' 6 92' 4B @>& ><A"' "9< ; ' @0 5<' " ' "9<' $ ": - : <5<' @4A "40& <4B?' " ' < ; C4 >' ' "9<' ' <2@9' 59 :0B' 4BG42@<' 2' @<)' ' ": 24"<0?' ' $ ": -40& ' <4"' "4 2& 42B' ' : A<& "9<' " 59' G< 2 ; <2"' 94B' <5 0G<B' " ' @ 2" 2:<' "9<' 5" : --0<' 2' "9<' $<2 25:04' 4"' 400' @ 5"5)' 2' '<C :4 ?' <2< 40' < <5 B' =45' 5<2"' :"' " ' < -42 5<' "9<' $ ": - :<5<' 4 ; ?& = "9' 5 ; <' 5@ <5' ' " 59' @< 5' " ' 9<0A' 9 ; & 42B' 4' - <4"

K W ; ! 3 < %' ! !' +' ' ZZW

5" <' '2<='4 ;5'42B'<N: A ;<2"') 2' A 0' '4'4' ; <' ; A "42"'
422 :2@<;<2"'=45' ;4B<') ! ' "9: '%< <B<?&"9<'G @" ' ' ; < &
=45'24 ;<B'@ ; ;42B<' ' "9<' "59' @<5'2'$ ": -40&42B' B< <B'
" ' 54 0' ' (5C 2' 4"' 59 "' 2 " @<') KKKK' 4AA 2" ;<2"' =45' B:<' "'
(B' 45"0< <4-9& =9' 59 =<B'4'5"<4B?' @ 2 B<2@<' 2' %<00<50<?& 42B'
40=4?5' <;A0 ?<B'9 ;'45'9 5' @9 <' ; 0"4 ?' 4BG 5< ') 9<' -<2< 40' 94B'
5"4"<B' "94"& - 42"<B'4' "59'4 ;?' ' & ' ' & ' ;<2' 42B'
"9<'@ 2" 0' '"9<' 24" G<' @<5& 9<' = :0B' :2B< "4><' "' 9 0B'$ ": -40'
4-4 25"' 42?' ' <2@9'4 ;?'2 "' <D@<<B 2-'K & ' ;<2') 9 5' =45' @ 2m
" 4?" ' ! ' 6 92' <J5' B@": ;' "94"' $ ": -40' =45' :2"<24C0<F C:"'
"9<' G< 2;<2"& : -<B' 2' C?' 45"0< <4-9& <5 0G<B' " ' "4><' "9<' 5>')
<2 @<;<2"5' C<-42' " 'C<5<2"' :"F %<00<50<?'9 ;5<0' <4@9<B' (5C 2'
42B'5:A< 5<B<B' 4B @>' 2' A 0' &K W)
<'9<'042B<B&"9<'@4;A4-2' 'K '94B'C<-:2') < <'N: "" 2-'
!A4 2& 4A 0< 2' 94B' 04 B' B =2' "9<' -<2< 40' 0 2<5' "94"' =<'<" ' C<
00 =<B'C?'9 5';4 59405') ! :0"&0<4G 2-' <?'C<9 2B'9 ;'" '9 0B'B =2'
40@4&=45" ';4@9'= "9'9 5' =2'@ A5' ;' :224' 2'$ ": -40&42B'
" '"4><' 5"' A " &42B'"9<2'(5C 2') ! '542-:2<=45' 4A 0< 2'"94"'
9<9 A<B' "94"' "9<'$ ": -:<5<'@4A "40' ; -9"'9 0'C< <' '<C :4?' KU)
2'"9<' "9<'5B<& @" &="9'9 5'@ A5'42B'@<"4 2' <2 @<;<2"5& =45'
" '@ 55' "9<' 4-:5&@ :59' :<5"4\5'4 ;?' ' 5" <;4B: 4&"4><' 4B4 a&
42B'"9<2';4@9' 2'!<G 00<') !<C45" 42 J5'@ A5'=45" 'B<40'="9'"9<' "9<'
!A42 59'4 ;?'2'"9<'5 :"9 3"94"' '(4' 42@94':2B<' 4"4N 40F C:"'
@" J5'=45" 'C<"9<' B<@5 G<C0 =') 4"40 2 4'42B' 4- 2'=<<5 B<8'
55:<5 '@ ;A4 4" G<0?'0""0<';A "42@<)
9<' '<2@9'@0:;25' B:0?'4BG42@<B& 2' C<B<2@<' "' "9<' ;A< J4'
B< 5F C:"' 2<G "4C0<'9 2B 42@<5 3 8C4B 4B5& C4B'=<4"9<&42B'B @:0"?'
'5:AA0<5 3 @4:5<B' "9<;'" '5"4 "' 4'04"<' "942' 9<'94B' 2"<2B<B') ! :0"'
0<" :224'="9' & ' ;<2& 4 "<' "': 2 2-' G<' "9<'@94 -<' 40@4'
" ' <?') 2' 4 @9' W' 9<'@ 55<B' "9<'$ ": -:<5<C B<' 2<4' 94G<5F
(4' ;424&="9' "9<'= <@>5' '"9<'!A42 59'4 ;?' 40@4&94B' <" <B'
2 "9=4 B&=5<0?' <:5 2-' C4""0<') ! :0"J5' 2G45 2' $ ": -40'=45' 42'
:2C ><2'5< <5' @ ;C4"5'= "9'4'940 4 ;<B'A<4542" ?&C4@><B'C?'4' <='
C4""40 25' 'B 5 -42 5<B' 0 2<" NA5') 9<?' B B' "9@8C<5"&C:"' =<<
:""< 0?':24C0<" '5"42B'C< <'"9<' '<2@9'G<"<425') '"045"& 2' 4@9'Y&
"9<' 4 5940' @<B'9 5'=4?" ' A " &42B' :2B' 2' 2"' '"9<'@ "?'4'0 2<
'945" 0?'@ 25" :@"<B'<4 "9= >5';422<B'C?' & ' 25;-<2"5& 9<4B<B'
C?'"9< 'C 50 A'42B' :2@ 2" 00<B'C?'42?'A A<' ;0"4 ?' -42 54" 2')
<5" ;<B'"9<0 2<5"= 'B4?504"< &42B';9B<4'9 C0<504:-9"<' '"9<'
$ ": -:<5<&5<G<40"9 :542B5' '=9 ;'=;<B G ;' 2" '"9<' G<)
:"9<'<! :0"J5 2" 4" G<@4;<" '42'<2BF 9<'=45' :24C0<" '@4 ?'
:"9<' ;A< J5 25" :@" 25'C?'4BG42@2-'4-4 25"' (5C 2') <'=45'
@:"' ';'400'@ ; ;:2@4" 2'= "9' "9f0' '<2@9'4 ;<5'C?' 25: -<2"5'
2'95'<4') 9<'<;425 '"9<'$ ": -:<5<' @<5'"94"' 9<'94B'C<4"<2'
=;<942-2-' 2'4'-<4"' ;455 2'95'0<"' 042>F '9<'0<"'4'@ ;A<"<2"

') /') ') X') ') X & W

garrison in Oporto, he would not have enough troops for the final advance; and he now knew that there was a British force awaiting him somewhere near Lisbon. Accordingly he halted, sent out flying columns to open his communication with Galicia, and wrote to the Emperor for more troops. Meanwhile he amused himself by assuming quasi-regal state at Oporto, and seems to have dreamed of becoming "King of northern Lusitania."

The other French advance had come to a similar standstill at about the same moment. Two Spanish armies, it will be remembered, had been collected for the defence of Andalusia—that of Cartaojal covering the eastern passes, that of Cuesta behind the line of the Tagus. On March 27 Sebastiani beat Cartaojal at Ciudad Real, and forced him to take shelter in the Sierra Morena. But the French general had received orders not to press his victory; it was Victor who was to deliver the great blow. On March 15, that marshal crossed the Tagus high up, thus turning the position which Cuesta had taken behind the central course of the river at Almaraz. He had about 22,000 men, a force slightly exceeding that of the Spaniards, who drew back when their flank was turned, and retired across the mountains into the valley of the Guadiana. Here Cuesta was reinforced by a division drawn from Cartaojal's army and offered battle, for he was as rash as he was unskilful in the field. He took in hand no less a scheme than to surround the French in the open plain near Medellin, and advanced in a line four miles long and only four men deep. The natural result followed; the French cavalry broke his left-centre by a furious charge, and then rolled up his isolated wings in detail. The slaughter was awful, for there was no friendly mountain or ravine to shelter the routed troops; more than 7000 were cut down, and nearly 2000 made prisoners (March 28). Nevertheless Victor's offensive was exhausted at Medellin, just as that of Soult had been at Oporto. Insurrection had burst out in his rear; his army was enfeebled by detachments, and suffering from want of food. He could hear nothing of Soult, whose advance on Lisbon was to synchronize with his own on Seville. He declared that he was not strong enough to besiege Badajoz, much less to invade Andalusia, and halted in the valley of the Guadiana, clamouring for reinforcements, which King Joseph at Madrid was too weak to send him.

Such was the condition of affairs when Wellesley landed at Lisbon. The French invasion had come to a standstill. Soult would not move without reinforcements from Ney, nor Victor without reinforcements from Madrid. Wellesley at once grasped the situation; he had at his disposal, counting the newly-arrived regiments from England, some 25,000 British and 16,000 Portuguese troops. This was enough to enable him to deal a crushing blow at either Soult or Victor, while leaving a detached force to "contain" the other. Without a moment's hesitation, he resolved to deal with Soult first, and, leaving 12,000 men

ZU ' J ++ + 1 ' ,# ' $ + ' ' + # ')

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2' 6:0?' K 8 "9< ">9' " A5& :5"' & ' 5" 2-& 2<B' :<5"4J5 5" <;4B: 42' 4 ; ?& =9 @9' 94B' C<<2' 4 5<B' " ' 4' 5" <2-"9' ' U& ' ;<2& 2<4 ' 0;4 4a' 42B' "9< "= ' C B <5' ;4 @9<B' 2' @ ;A42?' 4-4 25"' @")' 9< 4 5940 B <=' C4@>' C< <' "9<;&<G4@:4"<B' 404G< 4& 42B' <" <B' "=4 B5' 4B B)' 4""< 5' 0 ><B' 4 0?' =<00& "9 :-9' :<5"4' 94B' A BG<B' 4' G< ?' A< A0<D 2-' @ 00<4-:<)' "' =45& 9 =<G< & 2 "' 9<& C:"' <2?45& =9 ' :2<B' "9< @4;A4-2)' 94"' @< & 25"<4B' ' B<"4 2 2-' !<C45" 4;' 2' 9 5' 2"& <;4 2<B' 24@" G<& 42B' 400 =<B' "C<' <2<;?" ' ;4 @9' 4=4?' :2A< @< G<B)' 9:5' @" & !<C45" 42 & 42B' / 2-' 6 5<A9& =9 ' 94B' "< :-9"' :A' "9< 045"' <5< G<5' ;' 48B& =< < 4C0< 2 6:0?' ' " ' ;455 2<4 0?' U & ' ;<2' 2' 2"' ' %<00<50<?' 42B' :<5"4& -2 2-' @ ;A0<"<0?' "9< 5 ;?' ' (4' 4 B4)

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) X)

; 4 @9<B' ;' !<G 00< = "9' "9< <5< G<5' ' "9< 4 ; ?' ' 2B40 : 5 4& 42B' 2' 4?' KU' A <5<2"<B' 9 ; 5<0 ' = "9' & ' ; <2' 2' 2"' ' "94' A 5 " 2' ' 0C : < 4& =9< <' "9< 400 <B' 4 ; ?' 5" B' A <A4 <B' " ' B 5A : "<' 9 5' A4554-<)' < <5 B' 94B' B 4=2' ' 9 5' 4 ; ?' ;' "9<' " <2BC<5' "9 <<' B4?5' C< <&0 42B' 94B' @ 2@<2" 4@"<B' 2<4 0?' 8& ' ; <2F' C : '" ' "9<5< 0<55' 8 4 2' ' =< <' " 8)' ' =45' 9 5' -9" 2 - - : 2B' =<00 @9 5<2F' 9 5' 2'" =45 @ G< <B' 20?' C?' 4' C >' <G< ?0=9< <' B4C0<F' 42B' B<25< = B5' 2' "9< : "9< ' C42>' A <G<2"<B' 9 ;' 8 ; ' B 5@< 2 2 -' "9< <2< ; ?05' ; G< ; <2"5)

"' B4=2' 2' 4?' K ' ! : 0'" B<0 G< <B' 9 5' 4""4@>' 4-4 25'" "9< 42>' 42B' 2 '" "9< 2'" ' "9< 00 <5)' 55 2-' "9< 5" <4 ;' 9 - 9' : A& : 2B< ' "9< @ G< ' ' "9< = B5& 9< <00' 2<DA<@"<B0?' : A 2' < <5 C B05' -9'" = 2-& =9 @9' =45 @ ; A 5<B' <2" <0?' ' ! A42 59' " A5)' %9 0<' <2B<4G : 2-' " ' @942-<' "9< ' 2"& 04><05' <- ; <2"5' -4G<' =4?F' C : '" < <5 B' @4 ; <' : A' = "9' "9< " 59' 2B' B G 5 2& 42B' 4""4@><B' "9< 9<4B' ' "9<' ' <2@9' @ 0 : ; 2)' '" "9< ; ; <2'" =9<2' "9< " A5' =< <' @0 5 2-& 4' : :5' 4 2m 5" ;' 5=<A'" G< ' "9< 9 00 5 B<' 42B& : 2B< ' @ G< ' ' "& 4' C -4B<' ' <2@9' 0 -9'" @4G40 ?' @94 -<B' 2' : A 2' "9< 042>' 42B' <4 ' ' "9<' " 59' 42B' 4C5 0 : "<0?' 422 9 04"<B' "9<' "9 <<' 0<4B 2-' C4""40 25)' 9<' 5 : =G 2-' 5<G<2' C4""40 25' ' "9<' 2B' B G 5 2' ; 4 2"4 2<B' ' 4' 0 2-' " ; <' 4' B<5A< 4"<' ; : 5><" ? C4""0<' = "9' "9<' ! "9' @ A5& 2' =9 @9' 2< "9< ' 5 B<' -4 2<B' 42' 2@9)' ! : 0"05' "<4 ' C -4B<5' =< <' @ ; 2-' : A& 42B' < <5 B' 0 2@9<B' 42B' "9 : -9'" ' <" <4"F' C : '" 9<' =45' A< 5 : 4B<B' C?' 0A2<0' 4 B 2-<' " ' "9 =' 2" ' "9<' -9'" 9 5' 045'" " A5& 9 <<' " 59' 42B' "9 <<' $ " : - : <5<' <- ; <2"5' ' "9<' Z"9' B G 5 2)' ?< 5' : 5 0 < 5' "9 : 5'" 45 B<' ! : 0"05' <5< G<& 42B' 400 2-' : A 2' "9<' 042>' ' "9<' ! "9' @ A5' B G<' "' ' "9<' <0B)' 9 5' 5" : - -0<' =45' "9<' ; 5'" C0 B?' 2@ B<2'" ' "9<' =9 0<' $<2 25 : 04 ' % 4 F' 2' C "9' 5 B<5' "9<' 2 42" ?' 94B' ; 4 2"4 2<B' "9<' C4""0<' 4'" @0 5< N : 4 "< 5& 42B' 94B' 400<2' C?' @ ; A42 <5' 42B' C4""40 25' 45' "9<?' 5" B)' G< ' ' < ; 9' =< <' > 008' ' = : 2B<BF' C : '" "9< ' A A " 2' ' @45 : 40" <5' =45' 45' 2 "9 2-' " ' "94'" 6' "9<' " 59& =9 ' 0 5'" ZK ' ; <2' : '" ' 0<55' "942' ' A <5<2")' 9<' $ " : - : <5<' 94B' 4C : '" Z ' > 00<B' 42B' = : 2B<B&' "9<' ! A42 4 B5' K & 5 ' "94'" "9<' " "40' @45 : 40" <5' 4 ; 2-' "9<' 00 <5' %< <' 2 '" ; : @9' 0<55' "942' "9 5<' ' "9<' <2< ; ?)' 9<?' 94B' 405 ' 0 5'" 4' - : 2& G<' 5" 42B4 B5& 42B' U ' A 5 2< 5)' : '" "9<' C <@'" ' "9<0' C4""0<' 94B' C<<2' 4@9 <G<B&' 2' 5A "<' ' < <5 B05' : 25> 0 : 0' ; 424-< ; <2"F' 4 "< ' 0 2-< 2-' ' 42 "9< ' B4?' 2' 2'" ' 9 5' 4BG< 54 ?05' A 5 " 2& ! : 0'" <" <4"<B' " =4 B5' 2B40 : 5 4& 0<4G 2-' K ' ' 9 5' 5<G< <0?' = : 2B<B' " ' "9<' ; < @?' ' "9<' 00 <5)' 9<' G @" 5' "9< < <' =< <' 4C0<' " ' <5 : ; <' "9<' 5 <-<' ' 4B4 a' 2' 4?')

%9<2' %<00 2-" 2' 4 G<B' ;' "9<' 2 "9' 42B' 455 : ; <B' @ ; ; 42B' 2' 5" < ; 4B : 4& 9<' <5 0G<B' " ' A <55' "9<' 5 <-<' = "9' G - :)' : '" 9 5' <2- 2<< 5' =< <' : 25> 0 : 0F' 9 5' $ " : - : <5<' C4""< 2-' " 4 2' =45' C "9' 5 ; 400 42B' =<4>F' 42B' "= ' 4554 : 0"5' =< <' C<4"<2' ' = "9' 0 55)' 2' 6 : 2<' K ' 9<' =45' C0 -<B' " ' <" <' ; ' C< <' "9<' =<00 B< <2B<B' " <55& ' 4 ; 2'" 94B' : 2 "<B' 9 5' =9 0<' 4 ; ?' 42B' ; 4 @9<B' 5 : "9=4 B' " ' 2' ! : 0")' 9<' " 8

ZY $ + . ! ++ + IK

<G<4 =9 ; "1B e400<4 9< 4@@ ; A0 59<B 0 ""0< 4 8 2 5"" "9< :B ; "4C0< ! ; 4"<2<5 "9< ; :2"4 25)

' : "9< 5 :"9 9 =<G< ; 4""< 5 =<2" B < <2"0?) "< @4A": 2- 4 4- 24 ! :@9<" 94B <5 0G<B " 0<4G< 4"40 2 42 4 4 5 " 9 5 @ 00<4-:< 4@B 240B 42B" "5" ><4" 40<2@ 4 "9<04 -<5" p 2B =<40"9 <5" < 0?) 2 "9< =9 0< <40 ; =9 @9 5" 00 < ; 4 2<B 2 "9<942B5 "9< A4" "5) 2 !<A"< ; C< 9< 0<B "9< - <4"< A4 " "9< 4 ; ?) 4- 2 B =2 2" " 40<2@ 42 @ 45" 042B 42B 04 B 5 <-< " "9< @> " <55 !4-:2" =9 @9 ; 5 "9< @9 < C:0=4 > "9< < " 0< O "" =45 =<00 B< <2B<B C?) <2< 40 2B 42 F 42B =9<2 "" 94B C<4"<2 "= 4554:0"5 04>< @4 ; < " 4 5< "9< 5 8< = "9 "9< =9 0< "9< 4 ; <5 ; @ 4 42B 40<2@ 4) ! :@9<" ": 2<B " ; <<" 9 ; 42B 2 "9< A04 2 5 :"9 !4-:2" =45 :-9" @" C< UE "9< 045" A "@9<B C4""0< "9< =4 2 =9 @9 4 !A42 59 4 ; ?) :24 B<B C?) " 59 " A5 4""< ; A"<B " 4@< "9< ' <2@9) 04><) "9 :-9 9< 4""4@><B G - :50?) =45 B< <4"<B = "9 4 0 55 U ; <2) :" 9 5 B 545"< 5 B B 2 " <2B 9< <) !4-:2" 5: <2B< <B 2<D" B4?F 42B ! :@9<" "9<2 A:59<B 2 4-4 25" 40<2@ 4 "5<0) < 94B C"4 2<B 0<4G< ; "9< ; A< " B 4= 2 "9< 4 ; ? "9< 2 "9 < 2 @< ; ; "5F 42B =9<2 9< 94B C<<2 2<B C? < 00< 42B "= B G 5 25 ; 4G4 <9< 4BG42@<B 2 4 C 4B 2"5=<<A 2- 04><5 4 ; ? C< < 9 ; 2 <@< ; C< 9< :-9" 4 0 2- :22 2- -9" = "9 "9< !A42 4 B5 42B B G< "= "9 B5 "9< ; = "9 "9< @ ; ; 42B8 2 @9 < 2" "9< @ ? 40<2@ 4F "9< < ; 4 2B< <5@4A<B " =4 B5 : @ 4) 04><) 94 B 2 " 2"<2B<B " C< 59:" :A 2 "9 5 459 2F "9< A04@< 94B 2 <-:04 ; B< ; " @4" 25 2 94B " C<<2 A A< 0?) A G 5 2<B) < ; 4B< "= :" 0< 4""< ; A"5 " C <4 :"5 42B =45 @8 2 642) 0W&K K 5: <2B< 4" B 5@ <" 2) 9 5 =45 "9< 045" 42B 2 " "9< 0<45" "9< B 545"< 5 "9< !A42 59 4 ; <5F K & ; <2 04 B B =2 "9< 4 ; 5 42B 20?) 4 < ; 242" =45 0< " 2 "9< <0B " ; 4 2"4 2 "9< 5" :--0< 2 : @ 4) ! :@9<" =45 2 = 4" "9< 9< -9" 9 5 ":2<5F 9< 94B C<<2 ; 4B< 4 ; 4 5940 @4A" ; 2- 4 4- 24 42B =45 2 = @ <4"<B :>< 0C: < 4 42B - G<2 G @< <-40 A =< G< 400 <45"< 2 !A4 2) " 9< @4A": < 04><5 @< =45 " C< "9< 045" 45 =<00 45 "9< ; 5" 5" > 2- 9 5 <DA0 "5)

G<2 C< < 40<2@ 4 <00 "9< ":2< =4 =45 C<- 22 2- " ":2 2 "9< ; < ; A 42" "9<4" < =4 40 2- "9< $ ":-:<5< 2" <) %B0 2- " 2 94B C<<2 =4"@9 2- 9 5 AA ":2 "? 4 <2<=<B 4""4@> 2 :B4B B - 42B " ; B " 4" ; B= 2"< =9<2 "9< 4 ; <5 $ ":-40 42B "9< 2 "9 =< < B 5A< 5<B 2 B 5"42" @42" 2 ; <2"5) < @40@:04"<B "94" 9< ; -9" @ :2" 2 "9 << =<<>5 C< < "9<?) @ :0B @ 2@<2" 4"< 2 5:@9 @< 45 " B G< 9 ;) <2@< 9< =45 @<B " = > 2 945"< :2B< A4 2 5<< 2- 9 5 5@9< ; < 4 0 "9< A04@< 94B 2 " 400<2 = "9 2 "94" " ; <) :" 400 =<2" =<00F 2 642:4 ? 9< 2G<5"<B :B4B B - 42B C :-9" :A 9 5 C4""< 2- " 4 2) 2 "9< K "9 9< C4B C<-:2 " C <4@9 "9< =4005F 2 "9< KW"9 "9< B 42B 0 -9" B G 5 25

ZY , + . , # . 5 I

"9< :4B 424 C4B "4C<2 "9< 2= 5< 5"<A " ? 2- " B 4= 0 % <00 2- " 2 C? 4 4? 2" @<2" 40 $ ": -40 :" "9< " 59 -<2< 40 B 5 <-4 B<B "9 5 B G< 5 28 C<0 <G 2- 9 ; 5<0 N: "< @4A4C0< B<40 2- = "9 "9< 4 5940 =9<2 4B4 a 59 :0B 94G< 400<2 < =45 :5" B<B 2 9 5 C<0 < F & 2 9<4 2- "9< B 545"< & 4 ; 2" 945" 0? = "9B <= ; $ ": -40 42B <00 C4@> "N "9< ; BB0< :)

2 0<4 2 2- "94" 4 ; A2" 94B <" <4"<B "9< " 59 -<2< 40 B<"< ; 2<B " A: 5: < 9 ; 42B A :59 ; 4""< 5 " 4 B<@ 5 G< 55: < 2 (< 2) :"C< "< ; 4 @9 2- 2 !404 ; 42@4 9< <5 0G<B " 5" >< 4 C0 = =9 @9 59 :0B ; 4>< "9< :2 "<B 4@" 2 "9< 4 ; <5 $ ": -40 42B 2B40 :5 4 <G<2 ; < B ; 0" "942 " 94B <@<2"0? C<<2) 9< 5 0< 0 2< @ ; ; :2 @4" 2 =45 C? "9< C 4" C B- < 0 ; 4 4a 2 "9< @<2" 40 4 - :5. 00 5 = <B<5" ?<B "9<? 94B 2 =4? ><<A 2- " :@9 = "9 <4@9 "9< 54G<"9<@ @: " :5 :"< "9 :- 9 4B B) @@ B 2- 0? 00 =45 B <@"<B " 5<2B 4 0 -9"0? <N: AA<B <DA<B " 2 ; :-9 "9< ; :2"4 25 42B " C <4> "9< C B-<) 5 <4" 9< 4@@ ; A0 59<B 2 4? KW 5 ; A 5 2- 42B 5" ; 2- "9< "= "5 =9 @9 - :4 B<B "9< 5" :@": <42B C: 2 2- "5 A 2" 25) 4G 2- "9 :5 5<@: <B 9 ; 5<0 ; "9< B42-< "94" ! :0" ; -9" @ ; < :A 2 " ; < " 5 :@@ : "9< 4 ; ? $ ": -40 % <00 2- " 2 @9 = <2 - <B 4 ; 2" C4""0< C? ; 4 @9 2- 5" 4 -9" 2 9 5 9<4B N :4 "< 5 4" !404 ; 42@4 4AB 04? 2- 5 <-< " "9< "5 =9 @9 B ; 24"<B "9< " =2 6" ; < KYE) 9< 4 594 94G 2- @ 2@<2" 4"<B "9< - <4"< A4 " 9 5 B G 5 25 4AA<"N<B " << B4?5 04"< 2 D ; " < " 59 4 ; ?F C: " 9< :2B "94" 9< =45 5 ; <=94" :"2 : ; C< <B C? "9< 400 <B @<5 42B 25"<4B 4""4@> 2- <" <B C<9 2B "9< : 6: 0? !E) 9< !404 ; 42@4 "5 <00 < < 9< 94B @ ; A0<"<B 9 5 <" <4")

9< @4 ; A4 -2 "9<2 5" B 5" 00 4 "2 -9" =9 0< 4 ; 2" =45 = ; " 2- < 2 < ; <2"5) < @400<B 2 "9< ' <2@9 -4 5 2 "9< 5": 45 42B C<5 : -9" 4 B ; "9< 4 ; ? "9< 2 "9 2 @ ; ; 42B =9 @9 4 4 <00 94B 2 =5 :A< 5<B<B 5<22< 42B ; / 2- 6 5<A9 4" 4B B) "9 A ; 5<B 9 ; 9<0A C: " C "9 =< <"4 B? 2 @4 ? 2- : " "9< A ; 5<F 42B 4 ; 2" =45 ; A4" <2") %9<2 9< 94B C<<2 2<B C? "9< 5": 42 B G 5 2 40 2< 9< <@ 55<B "9< : 42B 455 : ; <B "9< <25 G<) %<00 2- " 2 <00 C4@> C< < 9 ; " 00 9< 94B <4@9<B "9< ; ; <B 4"< G @ 2 "? ! 404 ; 42@4 42B "9<2 B <= : A 9 5 4 ; ? 2 "9< 9< -9"5 " "9< 5 :"9 "9< " =2 6: 0? E) 9< @ 2"<2B 2- @<5 =< < G< ? 2<4 0? <N: 40 2 2 : ; C< 5 <4@9 94G 2- 4C 2" Z & ; <2 2 0 2<F C: " %<00 2- " 2 =45 942B @4AA<B C? "9< 4@" "94" ; < "942 4 "9 B 9 5 4 ; ? =45 @ ; A 5<B ! A42 59 42B $ ": - :<5< " A5) G< <4-< " A <55 9 5 4BG< 54 ?& 42B " @: " 9 ; ; "9< B <@" 4B " $ ": -40 4 ; 2" " >" "9< B42-< :5 5"<A A: 59 2- 9 5 0< " = 2- =4 B " ": 2 %<00 2- " 2J5 -9"& 42B <D"<2B<B 9 5 @<5 2 4 ; :@9 0 2-< 2" "942 =45 54 <) %9 0< 9< =45 <D<@: " 2- 9 5 1 2> ; 4 @9 4@ 55 "9< 2" "9< " 59 A 5 " 2& %<00 2- " 2 @4 ; < B =2 :A 2 9 ; = "9 "9< 5A<<B 42B : ? 4 "9 :2B< C 0") 9< 5 04"<B

' <2@9' 0< '" = 2-' =45 5 : BB<20?' 4554 0<B' 2' 2'" 9?' %< 2-" 205 0 - 9 "& =9 @9' B<5@<2B<B' ;' "9<' 9< - 9"5& =9 0<' "9< B' B G 5 2' : 2B<' $4><294 ; & =9 @9' 94B' C<<2' @ 2@<40<B' 2' = B5' 42B' 94B' <5@4A<B' 4' ; 2"J5 2 " @<& <00 : A 2' "5' 042>' 42B' <4)' 9 <<' <2@9' B G 5 25' =< <' : "<B' 42B' B 5A< 5<B' 2' 940 42 9 : & 42B' 4 ; 2'" 9 ; 5B' =45 - <G : 50?' = : 2B<B' C?' 4' : 2B 59 '" 45' 9<' =45' 945"<2 2-' " ' <A4 ' 9 5' 4 : 0")' 9<' < ; 4 2B<' ' "9<' 4 ; ?' ' $ " : - 40& "9<' @<2" <' 42B' -9'" ' "5' 0 2<& ; 455<B' "9< ; 5<0G<5' 2' 4' B< <25 G<' A 5 " 2& 42B' : - 9'" 94 B' " ' 54G<' "9<' B4?F' C : '" "9<?' =< <' - 4B : 400?' A : 59<B' 0A "9<' <0B' C?' 4' @ 2@<2" @ 4""4@>' ; ' 2'" 42B' 042>)' 9<?' 0 5'" ' > 00<B' 42B' = : 2B<B& Y ' A 5 2< & "= ' <4-0<5' 42B' K ' - : 25F 42B' 04 : 5<0& =9 ' 94B' 5 : @@<<B<B' " ' "9<' @ ; ; 42B& =45' : 24C0<' " ' 400?' "9<' = <@>5' "9<' 4 ; ?' ' ; 42?' B4?5)' 9<' B 545"< ' = : 0B' 94G<' C<<2' 5" 00' - <4"< & ' 4' ! A42 59' @<' = @9' %<00 2-" 2' 94B' A04@<B' " ' C0 @>' "9<' B' ' 0C4' B<' ; <5& G<' ' =9 @9' "9<' : "<B' 9 5'" <" <4" <B& 94B' 2 '" 0< '" "5' A 5'" = "9 : '" B< 5' C< <' "9<' C4""0<)

9<' G @" ?' ' ! 404 ; 42@4' 59 >' "9<' ' <2@9' B ; 24" 2' 2' ! A4 2' " ' "5' G< ?' ; B4" 25F 42B' "5' <5 : 0"5' =< <' <0'" " ' "9<' < ; "<5'" @ ; < 5' ' "9<' $<2 25 : 04)' 0 2-' 6 5<A9' 42B' 9 5' 4 ; ?' ' "9<' @<2" <' 94B' 5"4 "<B' ; ' 4B B' 2' "9<' B4?' C< <' "9<' C4""0<& 42B' = : 0B' 94G<' 2<B' 4 ; 2"& 94B' 9<' 20?' =4 "<B' "9 <<' ; <' B4?5' C< <' -9" 2-)' 5' '" =45& "9<' e 2-' 42B' 9 5' KU& ' ; <2' 94B' " ' <" <4" 2' 945"<& 45' 5 2' 45' '" =45' >2 =2' "94'" %<00 2-" 2' =45' ; G 2-' 2' 4B B)' 9<' G @" ' 94B' 5<2'" 2< B G 5 2' 42B' 9 5' ! A42 59' 4 : D 0 4 <5' " ' A : 5 : < 04 : 5<0& =9 0<' = "9' "9<' <5'" 9<' ; 4 @9<B' : A 2' "9<' @4A "40)' 6 5<A9' =45' @<B' " ' 0?& = "9' 9 5' : "& 9 5' @ 405& 42B' "9<' ! A42 4 B5' =9 ' 94B' 5 0B' "9< ; 5<0G<5' " ' 9 5' @4 : 5<& ' ; D<B' ; : 0" " : B<' ' K & ' 5 : 05& ' <4 2-' "94"& ' 9<' <" <B' " =4 B5' ' 42@<& 9<' = : 0B' C<' "4><2' 2' 042>' C?' "9<' " 59& "9<' / 2-' B< <B' 4' <" <4" 2' 40<2@ 4& =9<' <' 9<' @ : 0B "4><' < : -<' = "9' "9<' G @" : 5' 4 ; ?' ' ! : @9<")' 2' : - : 5'" K ' %<00 2-" 2' <2"< <B' 4B B' 2' " : ; A9& 42B' 2<D'" B4?' @ ; A<00<B' 4' -4 5 2' ' K ' ; <2& =9 @9' 6 5<A9' 94B' 0< '" 2' "9<' : <2' <" ' "5' 4C G<' "9<' @ "?& " ' 04?' B =2' "9<' ' 4 ; 5)' (< 2' 42B' C "9' "9<' 45" 0<5' = ; <' "9 : 5' B<0 G< <B' ; ' "9<' A =<' ' "9<' <2< ; ?)' ' =45' "9 5' 400F ! : 0'" 2' 2B40 : 5 4' 2 =' : 2B' 9 ; 5<0 ' @ : '" ' ; ' 400' "9<' "9< ' ' <2@9' 4 ; <5& 42B' 54=' "94'" 9<' @ : 0B' 2 ' 0 2-<' ; 4 2" 4 2' 9 5' A 5 " 2' 2' "9<' 4 ' 5 : "9)' G4@ : 4" 2-' = "9' C ""< ' <-8' "9<' 5A0<2B B' A G 2@<5' =9<' <' 9<' 94B' < 2<B' 45' @< ? ' ' "9 <<' ?<4 5& 9<' @ 2@<2" 4"<B' 9 5' =9 0<' 4 ; ?& 5 ; <' UU& ' 54C <5' 42B' C4? 2<"5& 42B' ; 4 @9<B' " ' 2' ! : @9<'" 4'" 40<2@ 4)' <' ! A42 59' " J A5' "9< <: A 2' < ; < -<B' ; ' "9<' 0 2- C0 @>4B<B' 4B a' 42B' < @@ : A <B' 2B40 : 5 4F =9 0<' 00& 0<' '" = "9' 2 ' <2< ; ?' C< <' 9 ; ' 2' 5" < ; 4B : 4& ; G<B' : A' "9<' 4- : 5' " ' 4B B&

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9< <55<2" 40 A4 " %<00 2 -" 2J5 "4@" @5 2 "9< C4""0< 6 : 2< K J =45 " A : 59 =4 B& 2@< ; <& 9 5 0< " = 2 - : 2B< 494 ; & 5 45 " ": 2 "9< ' <2@9 -9"& 42B @ : " "9< ; ; "9< 0 2< <" <4"& "9< - <4" 9 -9 4B " ! 42 ! <C45" 42 ; B 4? 22<) 9 5 =45 4@@ ; A0 59<B <4 0? 2 "9< B4 ?F C : " "9< <2< ; ?& B 4= 2 - C4@> 9 5 <DA 5<B = 2 - C<9 2B "9< ^4B 4& ><A" 494 ; ; 42? 9 : 5 ; 4BG42@ 2 - : "9<) # <" "9< 0 55 "9< A = < " <" <4" 2 4? 22< =45 4"40) ' % <00 2 -" 2& 4""4@> 2 - G - : 50? = "9 9 5 @<2" < 42B -9"& @ 55<B "9< 0 = < @ : 5< "9< ^4B 4 4" 5<G< 40 A 2"5& 42B B G< 2 "9< ; 4 2 C B? "9< ' <2<9 " =4 B5 "9< " = 2 "" 4) "9< 4B C<9 2B "9< ; 94B C<<2 A<2& 6 5<A9 42B 6 : B42 ; -9" 94G< <" <B = "9 : " 42? : 2 : 5 0 55<5) : " 494 ; =45 C0 @> 2 - "9< = 4? F 42B "9< B< <4"<B 9 5" 94B " <" <4" C? "9< 20? : "< 0< " "9< ; & 4 : -9 ; : 2"4 2 " 4@> " ! 46G4" < 4 42B $4 ; A<0 : 24& : 25 : "<B "9< A4554 - < 42 4 ; ? <2@ : ; C< <B = "9 9<4G? ; A<B ; <2"4) 9< / 2 - 94B = "9 9 ; 2 " 20? 4 G45" " 4 2 4 " 00< ?& C : " 4 - <4" @ 2G ? ! A42 59 < : -<<5 3 9 5) A4 " 5425 ; 4B B" 42B @ : 2"0<55 @4 4 - <5 42B %4 - - 25 04B<2 = "9 " <45 : <& A @" : <5& 5"4"< 4 @9 G<5& 42B G40 : 4C0< A A< "? 400 5 "5& "9< 4@@ : ; : 04"<B 5A 0 5 D ?<4 5 @ 2N : <5") 9< =9 0< "9 5 9<"< -<2< : 5 ; 455 G<9 @0<5 =45 "9 =2 : A 2 "9< 24 = $4 ; A<0 : 24 4B& 42B 9 A<0<550? 4 ; ; <B = "9 2 4 <= ; 0<5 "5 5"4 " 2 - A 2") 9< B< <4"<B 4 ; ? 4C42B 2<B <G< ?"9 2 -& 42B 0<B G< "9< 9 00 5 B<5) 2 4@" : 40 @45 : 40" <5 " 95B 2 " 0 5" 9<4G 0? 85 ; < > 00<B 42B = : 2B<B& 42B K A 5 2< 5F =9 0< "9< 00 <5 94B U ; <2 !

"9< 9< -9"5' ' 45"4004& 42B' =45' C<4"<2' ' = "9' 0 55)' :'" ! ' 6 92' : 4?&"9< @< ' =9 ' @ ; ; 42B<B' "9 5' @<& ; 4B< 2 '4""<24A'" ' A '" C?' 9 5' G @" ?& 42B' < ; 4 2<B' A455 G< "9 : -9 :'" 4?& 2' "9< 045'" B4?' ' "94'" ; 2"9& 4@" 2-' :2B< ' B< 5' ;' %<00 2-" 2& : 4?' A :'" 9 5' " A5' 42B' 4' !A42 59' B G 5 2' 2' C 4 B' 59 A' 4'" 0 @42"<& 42B' 54 0<B' ' 4"40 2 4)' <' =45' B <@"<B' " ' 2' "9< !A42 8' 4 ; ?' 2' "94'" A G 2R*' 42B' " ' 04?' 5 8<' " ' 4 4- 24)' 9< A: A 5<' ' "9 5' ; G<' =4j' " ' - G< ! :@9<'" B0' @@:A4" 2' B: 2-' "9<' @4 ; 7 ; -2' 2' 0B' 45" 0<)' %9<2' "9< 2<=5' ' "9<' 042B 2-' 4 G<B&"9< 4 5940' 9 : <B' 2 "9' = "9' A4 '" ' 9 5' " A5& 42B& 2 2-' <@4<2& "9< @< ' 0< '" 2' @ ; ; 42B' 4'" 4 @<0 24& ; 4 @9<B' 4-4 25'" : 4?)' 94'" -<2< 40' 0<B' = "9' :25<< ; 0?' 945"<' 2' 9<4 2-' ' "9<' 4AA 4@9' ' "9<' ' <2@9& 4C42B 2 2-' 9 5' 5 <-<' 4 " 00< ?' =9 0<' 9<' 9 ; <B0?' < ; C4 ><B' 9 5' " A5' 6:2<' K+E)' <' =45' 5:A< 5<B<B' G<' B4?'5' 04"<' C?' (B' % 00 4 ;' <2" 2@>& 42B' 4 "< =4 B5' " <B' ' @ =4 B @<' 42B' B 5 C<B <2@<' " ' 25"2 @" 25)' 9<' @ : " ; 4 " 40' <2B<B' 2' 42' 4@N : ""40& "9 : -9' 9<' =45' @<25: <B' ' - 55' < 5' ' :B- ; <2") 2' 6:0?' ' ! :@9<'" <@< G<B' "9<' 2<=5' ' "" 4& =9 @9' @ ; A<00<B' 9 ;' " ' <G4@:4"<' 40<2@ 4& 5 2@<' "9<' -4 5 2' '"94'" A G 2@<' = :0B' 94G<' C<<2' 2' 4' A< 0 :5' A 5 " 2' =9<2' <=' 45" 0<' 42B' 4- 2' 94B& 400<2' 2" ' "9<' 942B5' ' %<00 2-" 2)' <' <" <B' C<? 2B' "9<' eC & 42B' 4' 0 ""0<' 04"<' '4C42B 2<B' 4 4- 24&4 "< 'C0 = 2-' :A' "5' " @4" 25' : -: 5'" KYE)' 9<' 2-0 ! @ 0 42'4 ; ?&= "9"9<' !A42 4 B5' '"9<' : @ 42' @<&4BG42@<B' 40 2-'"9<' @ 45'" 42B' " >' :A'A 5 " 25' =9<2@<' "9<?'@ :0B' C5< G<' 4 @<0 24' ;' 4' B 5"42@<)' 2' !<A"<; C<' ! & ! :@9<"& "9 2> 2-' "94'" "9<?' =< < A <55 2-' 9 ;' " ' @0 5<& 4BG42@<B' 4-4 25'" "9< ; & 42B' :"<B' <2" 2@>J5 G42 - :4 B' 4'" "9<' @ ; C4'" ' B40)' :"& 45' 9<' B B' 2 '" :5< 9 5' 4BG42"4-<& "9<' 00 <5' @ 2" 2:<B' " ' 9 0B' 4 4- 24& 42B' " ' A:59' "9<' 5 <-<' ' "9<' -4 5 25' =9 @9' ! :@9<'" 94B' 0< '" C<9 2B' 9 ;' 4'" " 54& (< B4& 2a 2& 42B' "9< ' A04@<5)' 9<' 4 5940' = :0B' 94G<' B 2<' 4 ' C<"" < ' " ' 94G< <G4@:4"<B' "9< ; F' ' 9<' 0 5'" "9<' 5< G @<5' 'K & ' - B' " A5& =9 ;' 9<' =45' 2<G< ' 2' 4' A 5 " 2' " ' 5:@@ :0)' 9<' ; A< ' C<-42' " ' = "9B 4=' " A5' ;' 9 5' 4 ; ?' ' :5<' 2' < ; 42?' B: 2-' "9<' 4 : " : ; 2F' 42B& 45' ! :@9<"J5' ; 4 2' C B?' - <=' <<C0< & '" C<@4 ; <' 2@ <45 2-0?' @0<4 ' "94'" 9<' = :0B' 2<G< ' 9<' 4C0<' " ' <0 <G<' 9 5' :"0? 2-' -4 5 25)' 2' "9<' = 2"< ' ' K K Z& "9<' 5" : --0<' 2' 4"40 2 4' B= 2B0<B' B =2' 2" ' 4' ; < <' =4 ' ' B<; 25" 4" 25' 42B' 4 4 5' ' :"A 5"4 ' 4 ' "9< = 5<' 94B' ; 4""< 5' - 2<' 2' "9<' 59 <5' ' "9<' 4?' ' 5@4?)' 2' 6:0?' & ! :0"& 2' 4@@ B42@<' = "9' 9 5' ; 45"< J5' B< 5& <5: ; <B' "9<' <25 G<)' 9<' 400 <B' 4 ; ?' =45' 2 =' 42-<B' 2' 4' 0 2-' 0 2<' :A 2' "9<' ' 42@ !A42 59' 2" < & 5 ' 45' " ' @ G<' ' "9<' 5 <-<5' ' !42' !<C45" 42' 42B' $4 ; A<0:24)' ! :0"J5' AA ":2 "?' 04?' 2' "9<' 4@'" "94'" "9<' 9 005' ; A<B<B' "9<' 04"<' 40' @ ; ; :2 @4" 25' C<"=<<2' "9<' " 59' B G 5 25)' <' 5<@ <"0?' ; G<B' & ' ; <2' 4 ' 2042B' " ' 9 5' <D" < ; <' 0< "& 42B' <00' :A 2' "9<' " A5' :2B<' $ @" 2' 42B' 00' =9 ' =<' <' -:4 B 2-' "9<' A455<5' ' 2 ' @<5G4 <5' 42B' 4?4)' <' 9 A<B' " ' G< =9<0 ;' "9< ; & C?' 4' "= 0B

)' X)

Z ' 5 + ' W ' ! 8& + ' ' ' ' I Z

C?' "9<' A<4542" ?)' ! :0"J5' 4""< ; A"5' " ' 4 5<' 4' A4 " 542' =4 4 <' 2' "9<' <4 ' '"9<' 00 <5' ; <"' = "9' 2 ' 5 : @@<55)' !" 00' 0<55' : " : 0' =45' 4A 0< 2J5 045"' B<5A< 4"<' B<G @<)' 2' 4 @9' K ' 9<' <0<45<B' '< B 242B' ' ;' 40<2 4?&' 94G 2-' ; 4B<' 9 ;' ' 5 -2' 4' " <4"?' ' A<4@<& =9 @9' "9<' !A42 59' "<5' G< ?' A A< 0?' -2 <B)

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' "

! ! ' ' ' ! ' ' ! ;

% $ ' @ @ : ; 5"42@<5 2' = 9 @9' 0<D42B< ' & 4'" "9< 4 - < ' "=<2"? "9 <<&
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- 42 54" 2' ' "9< @<2" 40 - G< 2 ; <2"& 42B' 0< '" "9< : 2B4 ; <2"40 <G 05'
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" 4" 2& : 2B< ' 42' 4C5 0 : "< : 0< & 42B' "9< 5< 8 <' @ 2B " 2' ' "9< A<4542"5&
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? : "9& : 2'" / @9 : C< & : 2'" !" - 42 & $ 2@< a4 " ?5> & 42B'
G 55 0"a & = 9 & 0 >< 9 ; & 0 G<B' 2' 4' = 0B' ' B<405& "9< A 0 " @40'
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9; -03%$/8 4 ! , . ' % + ' ' N /3 # 5 ' ! 3 ' > A

"9< B4?' 42B' "9< ; ; 4": "?' ' "9< 24" 2) : "(=9<2' "9< 5"' <D@ "<m ; <2"' '9 5' < ; ' A <@"5' 94B' A455<B' 8)9 8' <40 2"< <5"' 42B' 4 ; C " 2' =< <' B G< "<B' " ' < -2' A 0 " @5)

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K _ % ! 6 , ! , 1 ZW

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2' <2< -<" @ <25 G<' =45' CG :50?' "9<' -9"' 5" 4"<-?' '"9<' <5)' 9 5' =45' =94"' "9<' $:55 4" 5' B<5 <B& C : "' "9<' 4BG42 <' =45' 5"4?<B' C<@4 : 5< "9<' G42 - : 4 B' =45' " '%<4>& 42B' / : " : 5 @ 2" 4 ?' "' '4- << ; <2"& < ; 4 2<B' 4"' 40 5@9' % ""-<25"< 2' 42B' 0 @9< & 9 =<G< & 4AA 4@9<B' "9<' 0C<)' 9 : -9' "9<' ; 455 2-' ' "9<' ' <2@9' @<5' 4"' 4-B<C: -' "9< ' A 5 " 2' 4"' <5B<2' =45' 5 ' 4 ' =<"B<2<B' "94"' "9<?' =< <' @ ; A<00<B' " ' G4@: 4"<' "9<' !4D 2' @4A "40& =9 @9' =45' @@: A <B' C?' 0 @9<)' ! 2' 4 "< =4 B5' # >)5' G42 - : 4 B' 4AA<4 <B' <45"' ' 4-B<C: -' 42B' " >< 0 =< ' 0C<' =45' @ 55<B' C?' 0 -9"' " A5)' 4A 0< 2& =<00 >2 = 2-' "9<' ; A "42@<' ' "9<' 0 =< ' 0C<& 4AA 2"<B' 4G :"' - G< 2 ' '"94"' B 5" @"& 42B' -4G<' "9<' @ ; ; 42B' 2' < ; <2' " ' 42B4 ; ; <)' 2' A 0' K' <2< 40 42B& 94G 2-' @ 55<B' "9<' %<5< & @@: A <B' (: 2<C: -' = "9' ; <2' 42B' 2 8' - : 25)' < <' 9<' =45' 5: A 5<B' C?' <2C< -J5' 42B' @9< ; "@9< 5' 0 -9"' " A5& 42B' 9 5' @<' =45' 422 9 04"<B)' "' =45' C : "' 4' 5 ; 400' 4 4 & C : "' "5' ; 40' < <@"5' =< <' 4 <4@9 2-)' "' =45' "9<' 5"' <40' G @" ?' = 2' 2' < ; 42' 5 0F' 42B' "9<' 2<=5' =45' <@< G<B' = "9' -<2< 40' < @ 2-)' 2 " : 24"<0?& 2' "9<' G< ?' 2 / "' B4?& 4G ; "' 4AA<4 <B' = "9' 4' 5 : A= ; ' @<& 42B' B G<' <2C< -' 42B' @9< ; "@9< $' C4@>' 4@ 55' "9<' 0C<)

9< <' %45' C 5>' -9" 2-' 4"' 4-B<C: -' 405)' < <& 2' A 0' I# : -<2<' @ 55<B' "9<' 0C<' = "9' 4C :"' Z & ' ; <2& @<B' 5"<00' " ' <" <& 42B' " >' : A' 4' A " 2' = "9' 9 5' @<2" <' 4"' <8 "a)' % ""-<25"< 2' B<"< ; 2<B' " ' 4""4@>' 9 ;' 2' "9<' U"9' = "9' & ' ; <2)' 2' "9 <<' A04@<5' "9<' 4BG42@<B' ' <2@9' @<5' =< <' <2-4-<B& @ ; B' =< <' <G< ?=9< <' B< <4"<B)' : -<2<' 0 5"' 2' > 00<B' 42B' = : 2B<B' Y ' ; <2& C<5 B<5' K ' A 5 2< 5)' 9<' 2<D"' 2 -9"' 9<' C<-42' " ' <" <4")' 5' 4""< ; A"' " ' <@ G< ' < 0 2' 42B' 5@4""< ' "9<' @<5' ' "9<' 00 <5' =45' <<C0?' <D<@: "<B& 42B' 40" -<"9< ' ; 5@4 <B)' 0 =' 42B' 5"<00' 00 =<B' 9 5' <" 84"& = "9' "9<' C <@"' ' =4"@9 2-' 4-B<C: -)' # >& = "9' "9<' :55 425& ; 4 @9<B' : A' "9<' 0C<' " ' 504 :' 42B' <5j4 :& =9< <' 4' C B-<' =45' C : 0"' G< ' "9<' G<)' 9<' : "9< ' A042' ' @4 ; A4 -2' =45' "94"' % ""-<25"< 2' 59 :0B' A< 4"<' 2' @ 2 : 2@" 2' = "9' 0 @9< ' " ' "9<' =<5"' ' "9<' 0C<F C : "& 45' "9<' <2< ; ?' 94B' G< ' U & ' ; <2' 2' 4-B<C: -& 0 : @9< ' B4 <B' 2 '" 0 5<' " : @9' = "9' 0 =)' # >' <4@9<B' 9<2' 2' A 0' K & =9 0< : -<2<' @@: A <B' "9<' 0< '" C42>' ' "9<' !440<& 42B' 4AA 4@9<B' "9<' 4 a' ; : 2"4 25' = "9' 9 5' ; 4 2' 4 ; ?)' <42=9 0<' 0 : @9< ' 94B' <4@9<B' (< Aa -' 2B' "9<' : 0B<& =9< <' 9<' =45' @ ; A<00<B' " ' 940"& 45' 8 <' ' <2@9' =< <' 54 B' " ' C<' -4"9< 2-' 2' @<' 4C :"' ' 42B' 9 ")' 00' 9<' @ : 0B' B ' =45' " ' ; 4><' 9 ; 5<0' ; 45"<' ' "9<' "< " ?' C<"=<<2' "9<' 0C<' 42B' "9<' !440<& 42B' " ' ><<A' 2' @0 5<' " : @9' = "9' % ""825"< 2)

"' " ' 4 @9' Y' B B' "9<' :55 42' 2 4 2' ; ?' C<- 2' "5' ; 4 @9' ;

W_W 7 %% ! + *) ++ < > % + 1 %+ 5$0$/

/ 40 5B 2" !4A" 2?) "" 2 : 20C< <B 20? & ; <2 42B @ : 0B 2 " <,8<@"" " C< < 2 @<B C? ; < "942 & <5< G<5 C< < "9< <2B 4?) 2 4 @9 K "" <4@9<B : 2a04 : 2 ! 0<5 4 =9< < / : " : 5 8 2 4 "8 = 4 B5 B <B) 0 @98 "9 : 5 : 2B 9 ; 5<0 @ AA0<B 45 C< < "9< ; < 5 5 2@< 2 5A "< 400 "9< < "5 9 5 5@ : "5 "9< <2< ; ?!5 B<5 -25 < ; 4 2<B C5@ : <) % ""-<25"< 2 =45 2 4 5 ; 04 5 " : 4" 2) "" =45 >2 =2 "94"" 4A 0< 2 94B -4"9< <B 4 A =< 8 4 ; ? 2 "9< ; BB0< 9 2< 42B "94"" "" 94B C8 : 2 " 244 @9 <45"=4 B) % 9<2 % ""-<25"< 2 <@< G<B ; < @< "4 2 2"<00 -<2@< "9< ; G< ; <2"5 "9< <2< ; ?!5 ; 4 2 4 ; ? " =4 B5 : "(9< C 8 ; 4 @9 E " B 4= 2<4 < " 0 : @9< 2 25 0< ") 9 < 04"" ; : 405 @ 2@<2" 4"<B 9 5 @<5 2 B< " < <@" 4 : 2@" 2 = "9 "9< <5" "9< 00 <5)

5 "9< 2<=5 1 ; "9< =<5" - <= ; < 42B ; < "9 <4"<2 2-(!@94 ; 9 5" A A 5<B " 4C42B 2 9< B< <25 G<(42B " 4""4@> 4" 2@<) "" =45 9 =<G< B<"< ; 2<B "94" "9< ; 4 2 4 ; ? 59 : 0B @ 55 "9< 0C< 42B 4@@<A" C4""0< 2 "9< 0< " C42>(A <5 : ; 4C0? C<"=<<2 (< Aa - 42B 0"<2C : -) % ""-<25"< 2 A A 5<B("9 5 @45<(" <00 5 : BB<20? 2 2< "9< 9 5" 0<@ 0 : ; 25 B : 2 - 9< 4AA 4@9) !@94 ; 9 5" 0 ><B =4 B -0 ; 0? " "9< : " : <F 9< "9 : -9" "94" "9<? = : 0B 400 C< " 04"<) "" @422 " C< B<2 <B "94" "9< 00 <5 59 =<B "9< ; 5<0G<5 2@4A4C0<) : 5 2 - "9< 1) : 4C0< ; ; ; "" = 9 8 "9< ; 4 2 ' <2@9 4 ; ? =45 5" 00 B 5"42") 0 @9< !5 42B % ""-<25"< 2!5 : 2 "<B @<5 4 ; : 2"<B " U(; <2(4 5" <2-"9 4 ; A0? 5 : @ <2" " <2-4-< : -<2<(B G< 9 ; ; 4-B<C : -(4 B -9" 9 ; 2 "9< < 0B) 9< AA " : 2 "? 94B 2 = A 4 5 8 F "9< 2" =45("" 5 " : <(5" <2-"9<2<B C? "9< : 55 42 ; 4 2 4 ; ?(C : " "9 5 < 2 @< ; <2" @ : 0B 2 " @ ; A4 < = "9 "9< ; 455<5 = 9 @9 4A 0< 2 C : -9" 2" "9< <0B) $ <G : 50? "9<? = : 0B 94G< 94B " B<40 = "9 42 AA 2<2" C? 2 ; <425 <4-< " "9< -9 "F 2 = "9<? 94B " @ 2"<2B 4-4 25" "9< -<2 : 5 42B 2G 2@ C0< <5 0 : " 2 "9< ; A<) 5 4A 0< 2(=9 0< = "9 2B< 4" -4C0< a<40 9< =45 -4"9< 2- " -<"9< 42 ; ; <25< 4 ; ? 2 ' 42@<(9< > 8 "" 9 5 <?< 400 "9< " ; < 2 < ; 42?) C : " "9< ; BB0< 4 @9 9< =45 "9 2> 2 - @ 55 2 - "9< 0C<(42B <0 <G 2 - 42a -) 9 5 =45 4 5 : G G40 9 5 : 55 42 5@9< ; <5(42B 94B 0 ""0< A 5A<@" 5 : @@<55) 9< 5 " : 4" 2 "9< ' <2@9 2 < ; 42? =45 - = 2 - 5"<4B 0? = 5<F @ 25<N : <2"0? 4A 0< 2 : 2B 9 ; 5<0 @ ; A<00<B " ; <<" "9< <2< ; ? 2 "9< 0C< 42B " A "<@" !4D 2?) < "9< < < @ 2@<2" 4"<B "= 4 ; <5(4 ; 4 2 4 ; ? : 2B< "9< @ ; ; 42B 4 594 0 <? 2 "9< 0 = < 4 2(42B 42 09< 2 " 4 ; 4-B<C : - : 2B< : -<2<(=9 @9 !< G<B " 5<@ : < "9< ; BB0< 0C< 42B @ : 0B 405 4BG42@< 5 : "9 <45"=4 B 2" ! 4D 2?) 9< "= 4 ; <5 ; -9" < <@" 4 " ; @" 2 C<9 2B "9< !440<) 2 A 0 KU "9< 4 ; ? "9< 4 2 C<-42 "5 ; 4 @9(=9 0< 42 "40 42 @ A5 4AA 4B <B ; "9< 5 : "9) 2 "9<0 "9 4A 0< 2 0< " $4 5) < 5"4?<B 2 4 2a " 00 "9< Z"9(2 B< " G< @ ; < "9< G4 : 5 B @ : 0" <5 =9 @9 C5" : @"<B "9< 4 5 2 - "9< 2<= 4 ; ?) 5 A05 ; =45 45 00 =5) 9< 4 ; ? "9< 0C8 40 ; : "

+

K ') ++ ' ' ! % ' $! @ I0 K

' _g) ') 4A 0< 2' B< <B' 4' -<2< 40' 4BG42@<') 2' 5A "<' ' B<5A< 4"<'
<5 5"42@<& "9<' 00 <5' =< <' @<B' 4"' Y' 1 - ' " ' <" 0 <' 2' 4' B <@" 2'
& ! :"9=4 B' ' 55 / 5@98)' 2' 1 <' @<2" <' "9<' C4""0<' =45' 0 5")
9B< '@ G< ' ' 2 + 9"' " <' B< <4"<B' 4 ; ?' A : 00<B' "5<0 ' " -<"9< ') 9<
: 55 42' : 4 B& K& H' 5" 2 -& 94B' "4><2' 2 ' A4 "' 2' "9<' 5" : - -0<F' 42B'
4' 04 -<' : 55 42' @ A5& "94"' ' 0 4B G "@9& < ; 4 2<B' 24@" G<' 4"' ^< "a)'
% : 2B<B' 45' 9<' =45& 0 @9< ' 9 : 0<B' <0<G<2' 5N : 4B 25' : A 2' "9<' <2< ; ?'
B : 2 -' "9<' 2 - 9"& C : "' "9<?' =< <' <A : 05<B)' < <' B4 = 2' "9<' 00 <5' = "9m
B <=' 2' A< <@"' B< & 42B' @ 55<B' "9<' 0C<' 4"' <5B<2' 42B' < 55<2)' 9<'
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= : 2B<B)' : 2 -' "9<' A : 5 : "' ; 42?' ; <' <00' : "& 5 ' "94"' <G<2" : 400?'
4A 0< 2& 2' <4@9 2 -' "9<' 0C<& 94B' U& ' ; <2' 0<55' "942' =9<2' 9<'
@ 55<B' "9<' ! 440< 384 A ' ' "9<' C4B' ' ' 9 5' 4 ; ?)
4 0?' 2' 4?' ' 4A > 2' A <55<B' 2' = "9' "9<' ; 4 2"' 4 ; ?' " '
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04 B' "9<' C04 ; <' ' "9<' ' B< <4"' 2' "9<' "9<') 9<' $: 55 425' =< <'
8 ' A <55 2 -' 2 "9=4 B5' " ' - : 4 B' < 0 2F' "9<' : 55 425' ' ; 4 @9 2 -'
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"9 4' = : 0B' C<' 4"40& -4G<' 2)' (<4G 2 -' 9<' B< <2@<' ' ; 0 2' " ' : 0 = J5'
=<4>' @ A5& "9<' @ ; C 2<B' @<5' 50 = 0?' ; G<B' " ' 4 : "a<2& 5"2B' " >' : A'
A 5 " 2' 2' "9<' 9< - 9"5' C<9 2B' "94"' " = 2& = 9< <' "9<?' =< <' 2<B' C?'
8 04 ?' = "9' K & ' ; <2)' 4A 0< 2' < ; 4 2<B' 2' <5B<2' " 00' "9<' KY"9'
" ' 5" <2 -"9<2' 42B' -42 5<' 9 5' 4 ; ?)' 5' ; 4 2' @<' 4 ; : 2"<B' 2400?'
" ' K & & <?J5 4 ; ?' " ' U& F' "9<' 4 ; ?' ' "9<' 0 = <' 0C<' : 2B<' '
4G : "' 2 : ; C< <B' &)' - 4 25"' "9<5<' @<5' "9<' 00 <5& = "9' : 0 = J5'
@ A5& @ : 0B' 20?' ; : 5"<' 00 & ' ; <2)
4A 0< 2& 2' C< 2 -' 2 ; <B' ' "9<' ; G< ; <2"5' ' "9<' 00 <5&
B<"< ; 2<B' " ' 4""4@>' 42B' B< <4"' 9< ; ' 2' @ 2 : 2@" 2' = "9' <?)' 5'
" A5' 4BG42@<B' @4 : " : 50?' " = 4 B5' 4 : "a<2& : 2" 0 "' C<@4 ; <' B<4 ' "94"'
"9<' 00 <5' 2"<2B<B' " ' 4@@<A"' C4""0<' "9< <)' 2' 4?' KW' "9<' ' <2@9'
; 4 2' 4 ; ?' B<A0 ?<B' =<5"' 42B' 2 "9 = <5"' ' 4 : "a<2 ' = "9' "9<' ! A << 2'
"9< ' 2")' <?' = 45' 2' "9<' ; 4 @9' = "9' "= ' @ A5& 9 5' C <@"' C< 2 -' " '
": 2' "9<' 00 <B' -9")' % ""-<C5"< 2& : 24 = 4 <' "94"' <?' 94B' ; <' "942'
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9 5' A 5 " 2& 42B' "9<2' C BB 2 -' 9 ; ' <5 : ; <' "' 9 5' 5<@ 2B' 4BG42@<' 0<B'
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42B' $: 55 ; 5' <00' C4@>' 2' "9<' ; 4 2' C B?)

9< A 5 " 2 ' "9< 00 <5 =45 2 =' 45 00 =5) 2 2"' "9< ; ' 0 =<B "9< !A <<& 45 ?<"' 4 59400 =' 5" <4 ; & "5 C42>5 @ =2<B 2 "9< @<2" < C?' "9<" ="' ' 4 :"a<2) 9< ' ; 4 2 @< <5"<B 2 "0*' 9<89"5 4C G< "9<" =2& =9 0< "9< ' 4BG42@<B A 5"5 <4@9<B" ' "9< !A <<& <?' 2 : ; C ; 8 W & ' ; <2& 2@0 : B 2-' 8 & W ' ' 455 425) 9 054> 5 : 55 425 =< < 2 "9< 0< "& 0 @9< ' 2 "9< @<2" <& 42B 4 @04?' 2 "9< -9"' = 2 -F "9< :55 : ; ' :4 B ; <B "9< <5< G<) 9< A 5 " 2& =45 4 5" 2-' 2<& C :"' " ' <D"<25 G<& 42B "' =45 C ><2 2" ' "9 << WK' @ 22<@"<B A " 25F ; < G< ' "9< - ; B =45 : 2 4G : 4C0< ' @4G40 ?) 9< =<4><5"' A ; 2"' =45 2 "9< -9"& =9 <9 =45 2@ ; A0<"<0?' @ G< <B) 9 5 =45 "9< G< ?' A 2"' "94"' =45 "9 <4"<2<B C?' <?)

"' 2AR ;' 2 4?' ' 4A 0< 2 @ 55<B "9< !A << 42B 4""4@><B " < 00 <5) 4BG42@<B A 5"5& 2 B< ' " ' A <G<2"' " 9< ; ' ; ' = "9B 4= 2-' R ;' "9< 4AA 4@9 ' <?) < 59 <=B0?' 4 ; <B 4"' B< < 2-' "9< B<@ 5 2 ; "B "9< 2<D"' B4?& =9<2 9 5 5<@ 2B 4 ; ?' = :0B < ; < 2" ' 4@" 2) ?' 2 -9" 400 4 :"a<2 42B "9< - :2B 2 2"' ' "' =< < = 2 ; ' "9< 00 <5) 9< :55 42 0< "' = 2-' 4AA<4 <B " ' C< 5< :50?' "9 <4"<2<B =9 ; <: A 2 Z ' ; <2 ' "9< <5< G< =< < 5<2"' " ' "5 <0 <) 4A 0< 2J5 A042 ' "9< K5"' =45 4B ; 4C0?' @ 2@< G<B) "' B4?C <4>' 4 < @< 4""4@>' =45 ; 4B< 2 "@94> J5 B G 5 2F 42B <?' 5A<<B ?' G ; B 5 : "' 2 "9< -9") ! : AA 5 2-' "94"' "9< 55 :< = :0B C< B<@ B<B 2 "9< 0< "& 0<D42B< ' 5<2"' "9 C< ' 42 "9< ' ' ' "9< :4 B& "9 :5 <B :@ 2-' 9< <5< G< 4"' "9< G< ?' :"5<"' " ' ; <2) 4A 0< 2J5 "4@" <5 =< < <2" <0?' 5 :@@<55 :0 2 "9< 00 <B 0< "& =9< < "9< :55 425 =< < :00?' @@ : A <B " ' <G<2 2-) < =45 <N : 400?' " : ; A942"' 2 "9< -9") < < "9< :55 425 94B " ' ; <<"' "9< <2G<0 A 2-' 4""4@>' ' <?J5 5 : A< ' @<F "9<?' <@< G<B 2 ' < 2 @< ; <2"5& 42B =< < A :59<B C4@>' 2 8 "<' ' 4' < @< <5 5"42@<) ' 2400?' 0 @9< ' =45 @<B " ' 2"< G<2< 2 B< ' " ' = <5"' "9< ; A "42"' A 5 " 2 ' $ < " "a' ; ' "9< ' <2@9) "' =45 2 =' ; BB4?' 4A 0< 2J5 @<2" < C<-42 " ' ; G<) 9< $:55 425 ; 4B< 4' B<5A< 4"< C : "' 2< <@" : 40 B< <2@<F "9< ' 8 "' =45 " : 2<B) <42=9W< <?J5 @< 94B' 2@ <45<B " ' Z & ' ; <2) : ' :00 5" <2-"9' 9< 9 : 0<B' 9 ; 58' : A 2' $; " "a& " >' "& 42B& 4""4@> 2-' 0 @9< ' 2 2"' 42B' 042>& @<B' 9 ; ' " ' <" <) 4B' <?' @ 2" 2 : <B' 9 5' 4BG42@< 4-4 25"' "9< $:55 425& "9<?' = :0B' 94G< C<<2' B< 8 ?<BF C :"' 9< <:B<B " ' - 45A' "9< 5 " : 4" 2) $4 "' ' "9< @<2" < 5" 00 9<0B' "5 - :2B ; 0?F 42B' "9 :5 0 @9< ' -4 2<B' " ; < " ' <D" @4"< 9 ; 5<0 ' ; ' 9 5 A< 0 :5 A 5 " 2) 9< ' <2@9& 9 =<G< & 4-4 2' ; 4B< 4' -<2< 40 4BG42@<& 42B' "9< 00 <5' = "9B <=' ; ' "9< <0B) 9<?' <" <4"<B' 2' - B' B< & = "9 :"' 0 5 2-' 4' 5 2-0< - : 2) 9< 0 55<5' B : 2-' "9< "9 << B4?5 4 ; :2"<B' " ' 4C :"' & ' 2' C "9' 5 B<5) ' 5<@ 2B' " ; < 4A 0< 2' 94B' @ 2N : < <B& C :"' 4-4 2' "9< G @" ?' =45 2B<@ 5 G<)

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0&' X)

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, d/ , Z

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4A 0< 2 B <@"<B ; f 40 < " 42B "4>< : A 4 A 5 " 2 4 "0 2B<24 : & =<5" (Aa - & = " K & ; <2) @< 2 : ; 0 8 2 - U & =45& " @ G< (< Aa - 2 "9< 2 "9 C : "& 45 "9< <2< ; ? =45 5 : AA 5<B " C< 5" B 5"42" 2 "9 5 5 B<& "9 5 @< =45 " @ A< 4"<& A 55 C0<& = "9 "9< ; 4 2 4 ; ?) 9<04""< & 4 ; : 2" 2 - " 4C : "KK & ; <2& =45 B 4=2 : A 2 "9< ; 4 @ <5@<2"5 : "9 "9< @ "?& 2 ; : @9 "9< 54 ; < A 5 " 2 45 "94" 40 <4B? 9<0B C? : 4"& 5" <"@9 2 - ; "9< C42>5 "9< $0< 55< " 0a 94 : 5<2) -49 5" "9 5 A 5 " 2 "9< 00 <5 4BG42@<B 2 4 = B< 5< ; @ @0<) 9< < =45 4 = B< B G< -<2@< 2 "9< G <=5 "9< @ ; ; 42B< 5) ! @9=4 a ; C< - =45 4"" 4@> 2 - ; "9< =<5"& 5 45 " @ : ; A0< : A "9< ; A< J5 0 2< 42B C4 9 5 <" <4"F C : "& 2 B< " @42? : " "9 5 A042& "9<? = : 0B 94G< 94B " @ 955 "C< $0< 55<& C<"=<<2 =9 @9 42B "9< 05"< 04? ; 4 59? ; A4554C0< 04"5& =9< < 4 <=' "9 : 542B ; <2 @ : 0B 94G< 5 : @<B "9< B< <2@<) 9 5 A042 =45 "9< < < - G<2 : A 42B& C? 0<D42B< J5 4BG @<& "9< : 55 425 42B $: 55 425 < ; 4 2<B 2 "9< - 9" C42> "9< $0< 55<& = 9 0< 20? "9< 04 - < A " 2 "9< : 5" 42 @< @ 55<B "94" G<) 9< <5 : 0" =45 "94" "9< 00 <5 94B 20? Z& ; ; 2 "9< ; 4 2 C4""0<m <0B& = 9 @9 0< " "9< ; 2 : ; < @400? 2 < " "9< ' <2 F 42B "94" "9 << 5<A4 4"< <2 - 4 - < ; <2"5 " > hH04 8 : 4" (2B<24 : & 4" 22<= "a& 42B 2 "9< - 9" 8 > "9< $0< 55<) 5 ! @9=4 a<2C< - 0<B "9< : 5" 42 @ 2 " 8 2 "& "9<) 5 : A < ; < @ ; ; 42B 2 4 ; 422< B<G 0G<B : A 2 "9< : 55 42 - <2< 40 4 @04? 9< ; ; 4 @95 : 55 4 42B $: 55 4 5"4" 2<B "9< ; 5 G<5 2 "9< % 4@9 "C8 - F 4A 0< 2 =45 4" %4@94 :) 9< K "9 @" C< B4=2<B B : 00 42B @ 0B F 4 2 42B ; 5" A4 "0? 9 B "9< A< 4" 25) 9< 00 <5 4BG42@<B 2 : 0 : ; 25) 9< 4 "" 8 > =45 A<2<B 4C : ")) C? / 0< 5"J5 $: 55 425& =9 4 "< 42 9 : J5 < @< @ ; C4" = <5"<B 4 >>0<<C< - ; "9< ' <2@9) <42=9 0< "9< 5<@ 2B @ 0 : ; 2& : 2B< : >< : - <2<& 4BG42@<B 4 - 4 25" 4A 0< 2J5 @<2" < 4" %4@94 :) 9 5 G 04 - < 405 <00F 42B "9< = 9 0< ' <2@9 0 2< 5<< ; <B " =4G<) ! : BB<20? <G< ?"9 2 - =45 @942 - <B) 4A 0< 2 4AA<4 <B 2 "9< <0B& 42B 4" 2@< " > 4BG42"4 - < "9< 5@4""< <B ; 4" 2 "9< 00 <5) ! <2B 2 - KYY - : 25 " "9< 2" 4" %4@94 : & 9< A<2<B 42 G< = 9<0 ; 2 - @422 24B<& : 2B< @ G< =9 @9 B<25< ; 455<5 2 42" ? ; G<B =4 B) "< 42 C5" 24"< <5 5"42@< "9< : 55 425 =< < @<B C4@> 2" "9< A04 2& =9< <& 94G 2 - 2 @ G< & "9<? =< < ; =2 B =2 C? "9 : 542B5) <42=9 0<& 2 "9< <45"& 4 >>0<<C< 8 =45 5<G< 40 " ; <5 0 5" 42B = 2F 2 "9< =<5" "9< : 5" 425 ; B< 0<24 : @4A" : <B (<C< "= 0> = "a& C : " 94B " 5 : <2B< " 4-4 2) 9< 400 <B 0 2< C8 4 2 50 =0? " - G< =4?)

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UZ ' $ + ' '2 & .'' ! ', ' ' ,

< <@ -2 5<B' "C40 9 5' A 5 " 4' =45 24"<24C0<' 42B' -4G< B< 5' ' "9< <" <4"' 9<4G' 9""< ?' <D94 : 5"<B' 9< <00 450<<A)' 9< B <@" 25' =9 @9' 9< 4AA<4 5' " ' 94G< - G<2' " ' @ 25" : @'' = B-<5' =< < 2 '' C<?<BF' 42B' "9< 4 ; ?' 94B' " ' = 2B' "5' =4?' "9 89' "9< 24 =' 5" <<"5' ' (< Aa -' " ' A455 : '' C?' 4' 5 2 -0< W/*;' 42B' " ' @ 55' "9< G< ' $0< 55< 4'' (2B<24 : ' C?' 4' 5 2 -0< C B -<)' 9< A< 4" 2' 2<@<554 0?' " >' 4' 0 2 -' " ; <)' 9< <" <4'' C<-42' 4'' 2 -9"' A4 '' ' 9< " A5' C< 2 -' 0< '' " ' B< <2B' "9< : "A 5"5' ' "9< @ "?' 45' 0 2 -' 45' A 55 C0<)' 9< @ 2 : 5 2' =45' "< C0<F' 4 ' B< ' =45' 0 5"F 4A 0< 2' 9 ; 5<0 ' =45 @4 <B' 4=4?' 2' "9< 5" <4 ; ' ' : - " G<5)

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)' x)

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a<2 4B5& 42B "9< <5 5"42@< "9< <2< ; ?& "9< 4A2? ! 0<5 4 94B ; 4 @9<B 5<G<2"? G< ; 0<5& @ 55<B "9 << G< 5& 42B 2<B 942B5 = "9 "9< ; 4 2 4 ; ?)

!A9=4 a<2C< - 94B 2 " ?<" 0< " "9< @ ; ; 42B 2 - A 5 " 2 "9< A04"<4 : (42- <5& A4 "0? = 2 - " ; 0 "4 ?& C : " 5" 00 ; < " A 0 " @40 @ 25 B< 4" 25) 4 : 04 2@ : "& ' < - 2 2 5"< 4 " $4 5& 94B 5 : - - <5"<B 2<- " 4" 2 3 84 A A 540 4- <<4C0< " <""< ; @9& C : " 2 " " "9< 54) " =45 <G<2" : 400? 5<""0<B "94 " 4 @ 2- <55 A0<2 A "<2" 4 <5 59 : 0B ; <<") <42=9 0< "9< 4 ; ? 50 =0? - A<B "5 =4? =4 B) 2 642 : 4 ? Z& "9< G42 - : 4 B <2@ D ; "< <B " < 4 " 4 5 : : C<) 9< < =45 4 542 - : 24 ? C : " 2B<@ 5 G< C4""0<& 4 "< 9 @9 " < <G4@ : 4"<B 9 5 A 5 " 2 C? 2 - 9 " 45 5> 0 : 00? 42B 5<@ <"0? 45 4 " (42- <5) < <" <B 2 ?<5& <<C0? A : 5 : <B C? "9< 00 <5)

0 @9< & 94G 2 - <4@9<B <22<& 42B @ ; < 2" " : @9 = "9 ! @9=4 a<2 C< - & 2 = : - <B "9< @ ; ; 42B< 2 @9 < " 4BG42@< B <@"0? 2 $4 5) 5 <5 0 : " 2 =45 2 " B 5" : C<B C? 42 4""4@> : A 2 9 5 <4 - : 4 B 4" ! " a & 5 : 00? B B 9< <0? 2 "9< @ @8 4" 2 " "9< ; 4 2 4 ; ? 2 "9 5 A< 4" 2) : " ! @9=4 a<2C< - B<@0 2<B " ; G<& ; < <0? B< 2 - "9< "= 2<4 <5" @ A5 " - " 00 @9< J5 455 5"42@< 9< =< < 94 B A <55<B) % "9 4 - <2< 40 5 ; 2B<B& B 545"< =45 " C< <DA<@"<B) 9< 4""4@> : AR ! " a < =45 "9< C4 2 2 2 - 4A 0< 2J5 '<2" G<)

; <5" @ A 0 " @5& "9< 2<= @ 25@ A" 2& 42B "9< @4 : 5<5& A 55 C0? <G<2 2B<@ 5 2& 94B 9 "9< " B<"4 2<B 4A 0< 2 2 $4 5) < 0< " "9< @4A "40 2 642 : 4 ? U& 42B <4@9<B "9< @4 ; A 4" c 8 25 2 "9< 00 = 2 - B4?) < <& 4 ; 2 - 9 5 " A5& 9< =45 2@< ; < A 55<55<B C? "9< 0B =4 0 >< 5A ") < 94B 4C : " Z & ; <2 2<4 ! " a < F 4@B 240B =45 @ ; 2 - : A = "9 K & F 42B " < = "9 & =45 2 "9< 2< - 9C : 9 B ?<5) % "9 : " B<04? 4A 0< 2 4""4@><B " < 2<4 <5" B G 5 2 "9< <2< ; ? 4" ! " a < & 8 : 05 8 "& 42B "9 : 5 5<A4 4"<B # >" 42B 0 : @9<) < "9<2 " : 2<B 2 "9< 04""< & 42B& 2 B< " A <G<2" 9 5 : 2@" 2 = "9 "9< ; 4 2 4 ; ?& 4""4@><B 9 ; 4" <22< 642 : 4 ? WE) 0 : @9< =45 2 " : 2A <A4 <B F C : " "9< -9" 2 - =<2" 5 ; : @9 4 - 4 25" 9 ; "9 B 2 "9<2 - 9" 9<4C42B 2<B "9< <0B& 42B <00 C4@>" 2 ! @9=4 a<2C< - & ; 4> 2 - 4 : "9< 5"42B C<"=<<2 (4 " < < 42B 422<5)

" "9 5 ; ; <2" "9< @<5 : 2B< 0 : @9< J5 @ ; ; 42B 94AA<2<B " @ 25 5" 40 ; 5" <2" <0? : 55 425) 5 4A 0< 2 B B 2 " 4BG42@<& 0 @9< A <55<B =4 B) " K 1 - 2 ' <C : 4 ? K 9< <00 : A 2 (4 "9 < <) 9< 4B5 =< < ; A4554C0<F 42B " =45 52 = 2 - 9<4G 0?& = "9 4 5" 2 - = 2B) "< 5 ; < 9 : 5 - 9" 2 - & % <B< B<@ B<B " < 4@" 2 C? <A : 05 2 - "9< <2< ; ?J5 0< " = 2 -) 9< % : "< ; C< - < 5 2<B09 ; F 42B 4" 2 - 9" 4 (4 "9 < < =45 "4><2 C? "9< : 55 425) < <59 4BG42@< 2 "9< A4 " "9< ' <2@9 =45& 20? <A<00<B = "9 "9< 4 B < 2 @< ; <2"5) 9< C4""0< =45 2 = = 2F C : " 04@> < <5< G<5 42B 4 "< C0< 52 =5" ;

))) x))

Z ‘ ‘ ‘ ‘ , ‘ ‘ + ‘ (‘ # ‘ + ‘ I

"9< <& 42B‘ A:59<B‘ =4 B‘ :2" 0‘ 9<‘ 5": ; C0<B‘ 2‘ 4A 0< 2)‘ 9<‘ ; A< ‘ 94B‘0< ‘" 20?‘ 4‘5 ; 400‘ @<‘ " ‘A ; 8:<‘ !4@><2‘ 42B‘ # >F = "9‘ "9<‘ @9 <‘ A4 ‘" ‘ 9 5‘ 4 ; ?‘ 9<‘ ": 2<B‘ " =4 B5‘ 2" ; 4 0& 42B‘ C<9 2B‘ 4:@94 4A‘ 5:@@<<B<B‘ 2‘ ; 455 2-‘ U & ‘ ; <2)‘ 0 @9< J5‘ G42 - :4 B‘94B‘ 4BG42@<B‘ " ‘ 4 F ‘" =45‘B G<2‘ :‘" ‘ 4:@94 ; A‘42B‘ <" <B‘ 2‘B5 B<‘ ‘ 2‘"9<‘ ; 4 2‘C B?)‘ %9<2‘ 0:@9<‘ <@ -2 5<B‘"9<‘5" <2-"9‘ ‘"9<‘<2< ; ? 42B‘ B 5@ G< <B‘ = "9‘ =9 ; ‘9<‘ 94B‘ " ‘B & 9<‘ 4‘" 2@<‘ <" <4"<B)‘ ‘" =45‘ 40 ; 5‘" " ‘04"<)‘ 9<‘ <2@9‘ @4G40 ?‘A <55<B‘ 94 B‘ :A 2‘ 9 ; F 42B‘ @ 2" 2: :5‘ <4 -:4 B‘B-9" 2-‘ 2 0@"<B‘ 2‘"9<‘ $:55 425‘ 4‘0 55‘ ‘Z ‘ ; <2& 940‘ ‘"9< ‘ @<& =9 0<‘"9<‘ 55 425‘0 5"‘ F "9<‘ ' <2@9‘0 55 =45‘2 "‘ G<‘ ‘)‘ 9<‘4 ; ?‘ ‘ ! 0<5 4‘ =45‘"9:5‘B< <4"<B‘ 2‘B<"4 0& 42B‘ @ ; A0<"<0?‘C ><2‘:A)‘ 9<‘" "40‘0 55‘4 ; :2"<B‘" ‘K & ‘ ; <2)

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!B =4 a<2C< -‘ 94B‘ C<<2‘ 50 =0?‘ 4BG42@2-)‘ 5‘ @4G40 ?‘ 40 <4B?‘ 42-<B‘45‘ 4‘45‘ <0:2‘42B‘ ' 2"4 2<C0<4:)‘ :‘" "9<‘2<=5‘ ‘ 0:@9< J5 ; 5 ":2<5‘@4:5<B‘9 ; ‘ " ‘ 940"F 9<‘0 5"‘ 9<4 "& 42B‘ <G<2‘C<-42‘" ‘B 4=‘ C4@>)‘ 9<‘ ' <2@9‘2‘ 2‘" ‘9 ; ‘ <@ G< <B‘@ : 4-<‘42B‘-4 2<B‘5 ; <‘ 5 ; 400‘5:@@<55<5)‘ 4A 0< 2‘9 ; 5<0‘2 =‘4AA<4 <B)‘ (<4G 2-‘ 4 ; 2‘" C<9 2B‘4 "< ‘"9<‘ -9‘" 4‘" 4:@94 ; A& 9<‘94B& 2‘"9<‘KZ"9& ":2<B‘4-4 25‘" !@9=4 a<2C< -)‘ 4G 2-‘ 20?‘U & ‘ ; <2‘4‘" 9 5‘B 5A 540& 9<‘5: ; ; 2<B‘ <G<2‘"9<‘G<"< 425‘" ‘ 2‘9 ; ‘ 2‘"9<‘ <0B)‘ 4 5 2‘=45‘ B< <B‘ " ‘ B<"4 2‘ 0 =‘ 2‘ 0042BF :-< <4:‘=45‘ " ‘4""4@>‘"9<‘ :5" 425‘ 2‘ 5 :"9< 2‘ ' 42@<‘42B‘"9 <4"<2‘"9< ‘0< ‘" 042>)‘ 4G 2-‘9 ; 5<0‘B< <4"<B‘ "= ‘4BG42@<B‘C B <5‘ ‘"9<‘ <2< ; ?& 4A 0< 2‘ " >‘ ; <45 :<5‘ " ‘5<@: <‘ 8 ‘"9<‘A4554-<5‘4@ 55‘"9<‘ !<2<‘ ; ‘ -<2‘" ‘ 2"< <4:)

<42=9 0<‘"9<‘ @ 2 < <2@<5‘4‘" 94" 2‘94B‘C<<2‘5:5A<2B<B‘ ‘ 4‘=<<>‘ ' <C :4 ?‘W KYE& = 2-‘A4 "0?‘" ‘4‘ ; 42B4"<‘ ; ‘ 0<D42B<& A4 "0?‘" ‘ 4A 0< 2J5‘42D <"?‘" ‘B< <4‘" 0:@9<)‘ 9<?‘=< <‘ 20?‘ <2<=<B‘ =9<2‘ <""< 2 @9‘ <A<4"<B‘ 9 5‘"9 <4‘" ‘ = "9B 4=‘"9<‘ :5" 42‘ @<5)

" < 00 <5 =< = 00 2- 4><A<4@< 2 "< ; 5 = @0 = :0B 94G< 0< ' 42@< "9< 0 ; "5 KYW0 A G B<B "94 4A 0< " = :0B <2 :2@< 400 @04 ; " 2 0:<2@< C<? 2B "9< ;) 4:04 2@ : " =45 <4B? " @@@<A "9<5< @ 2B " 25 9 5 ; 45"< <2@ : 4-<B C? 9 5 <@<2 ! :@@<55 =45 ; < 4 ; C " :5) < =45 <5 0G<B 2 " @<B< <0- : ; 42B "9< 0< " C42> "9< 9 2< 42B 9< 25" :@"<B 9 5 <2G ?4@@ D0 2-0?) ! B<A <55<B =< f "9< 00 <5 "94"4" !@9=4 a<2C< -J5 5: - -<5" 2 "9<?45><B 42 4 ; 5" @< C :" 4A 0< 2 < :5<B " A4 0<? <D@<A 2 "9< C45 5 "9< [24": 40 2" < 5\ ' 42@<) 2 "9<5< @ @: ; 5"42@<5 !@C="" a<2C< -@ 2@< G<B 9 5 20? 9 A< 54 <"? " 0 < 2 4 -<2< 40 <" <4") 5 B<@ 5 2 =45 945"<2<B C? 4 <59 <G< 5<) 2 B< " @ G< "9< = "9B 4=40 9< 2"<2B<B " 9 0B "9< :"0? 2-A 5 " 2 2"< <4:" 00 "9< <G<2 2- "9< KW"9) :" 2 "9< K "9 "9< =2 $ 2@< % : "< ; C< -=9 @ ; ; 42B<B "9< <=45 4""4@><B C? 4A 0< 2 42B 4 "< 4 5" :" <5 5"42@< B G<2 :" "9< " =2 = "9 "9<0 55 ; <2)

!@9=4 a<2C< - C<0 <G 2- 9 5 =2 5" <2-"9 " C< 25: !@<2" 2 = @8<B 2 0 @9< " : 2 9 ; 2 "9< :2B< 5" ; B 2- "94" " "9< 04""< @ :0B <4@9 < ?5: !<2< 08 "9< K5" " ; 8 "9<2 A 55 C0< " <2<= "9< 4BG42@<) 0c@9< <A0 <B "94" 9< = :0B C< 2 "9< 5A ") 9< <5<< ; <B " C< <G< ?A 5A<@" 4 B<@ 5 G< C4""0<F 42B 2 9< "9 2< 5<24: 42B 0 ; 42 =<2" " 9<4B N:4 "< 5 " B 5@:55 4 A042 4@" 2) :" 4-4 2 4 @942-< @@: <B) !@9=4 a<2C< - 94B <@< G<B 2<=5 "94" : -< <4: =45 A <55 2- A <5 "9< !4B2< ; "9< 5 :"9 42B "94" "9< 9 5" 0< @<5 =< < ; 4 @9 2- " =4 B5 <2<G4) 25"<4B < < <@" 2- 9 5 ; @" 2 = "9 0 @9< 42B "9<2 4""4@> 2- 4A 0< 2 % "9 4 5 :A< @<9<C<@4 ; <42D :5 4C :" 9 5 042> 42B <4)

2 '<C :4 ? 4) @ :2@ =4 =45 9<0B 4" ?<5 4" =9 @9 !@9=4 a<2C< -J5 A A 540 " <" <4" A <G4 0 B) < 2 ; <B 0 @9< "94" "9< A <5<2" 9< B4 <B 2 " 5> 4 C4""0<H 42B B <@"<B 9 ; 4@@ B 2-0?" <" <2 "9=4 B5 " =4 B5 "9< 4 ; <" 2 % 2a 2-< B< 42B 00 = =9 5<@ A5 =< < " C< 4" 9 5 B 5A 540E 42B 94G 2- < <@"<B 9 5 ; @" 2 " B G< " "9< 4""<2" 2 4A 0< 2 ; "9< ; 4 2 4 ; ?) 9 5 ; <42" ?<" 42 "9< 5<A4 4" 2 "9< "= 4 ; <5 C :" "B B 2 " 4" 2@< <0 <G< !@9=4 a<2C< - 4A 0< 2 -4G< 9 ; 2 <5") $:59 2- 2 9< 5" ; <B ?<5 42B "9< ; 4 2 4 ; ? <" <B C<? 2B 4 5: :C<) 2 "9< U"9 4" 4 @ :2@ =4 9<0B 4" "94" A04@<8 =45 B<@ B<B "94" "9< ; ; 2 4 ; ? 59 :0B @ 2" 2 :< "5 <" <4" C? =4? 94: ; 2" " (42- <5 42B "94" 0 @9< 59 :0B 4@" 2B<A<2B<2"0?) 9< ' <0B ; 4 5940 94B 40 <4B? 5<" 4C :" <D<@:" 2- 9 5 A4 " "9< A042 : :5 4" !@9=4 a<2C< -J5 <" < ; <2"C :" G< ?<B 4" <@ G< 2-9 5 2B<A<2B<2@<" -<"9< = "9 4 04 -< 4@@<55 2 5" <2-"9) "< 5 ; < -9" 2- 4" < ?9< 4""4@><B 4 ; 2" 4" !<a422< 2 B< " B 4= 4A 0< 2J5 @<5) 4 ; 2" =45 B< <4"<B 42B 4A 0< 2 2 = C<@4 ; < 5< :50? 42D :5 4C :" $4 5) (<4G 2- 9 5 A 5 " 2 2 2" " !@9=4 a<2C< - 9< ; 4 @9<B 2 "9=4 B5 = "9 4 04 -< A4 " 9 5 4 ; ? 2 "9< Y 9)

) x)

U ! @ # .

2 9 5 4AA 4@9 0:@9< 5> 0 :00?= "9B <=& 42B @ 55<B "9< 4 2<) 9< C <@"" "9< $:55 42 @ ; ; 42B< =45 "9:5 4""4 2<B)

"9< " & "9<@ 2 < <2@<5 4" " 00 2 94B A B:@<B 2 <5:0")" :"& = "9 2 "9< 40 " 2 "5<0 & ; :":40 <04" 25 94B ; A G<BF 42B "9 5 =45 <G<2 ; < ; A "42"" "942 ; ; <B 4"< 5:@@<55<5 2 "9< <0B) 2 '<C :4 ?K 4A 0< 2 94B = ""<2" " 9 5 4"9< 2 04=& : - 2-9 ; 2 " " 54@ @< "9< 2"< <5"5 :5" 4 " "9 5< 9 5 400 <5& C:" " 4@@<A" A<4@< 2 "9<C45 5 < <B 4" ' 42> ") <@< G<B 4 0 ""0< <4 0 < & "9 5 A A 540 A0 -9" 94G< C ><2 :A "9< 40 " 2F =9 0<& 2 "9< "9< 942B&) <D42B< 42B ' <B< @> % 00 4 ; =< < 5< :50?@ 25 B< 2-=9<" 9< "9<?B 20B 2 " 4C42B 2 00 < @ 22<D 2 = "9 :5" 4 42B A m 5<@:"< "9< =4 40 2<) %94" A <G<2"<B 5 B 545" :5 42 55:< =45 4A 0< 205 C5" 24@?42B "9< G< ?5:@@<55<5 =9 @9 9< 94B <@<2"0?C"4 2<B) 5 < :8 42 4 ; 5" @< B 5-:5"<B "9< ; A< ' 42@ 5& =9 & 2 "9< Y"9& <":2<B 42 :2 4G :4C0< 425=< " 9 5 5 2 2 04=) 2B< A <55: < ; 5 ":2< 42B 404 ; "9< 400 42@< =45 2 = @ ; A4@"<B 2" 4 @0 5< C 2B& =9 @9 " >594A< 2 "9< <4"?94:; 29 ?"9 5 ; A "42" C <4"?C9< ' :$ =< 5 C :2B "9< ; 5<0G<5 2 " 2<- " 4"< 5<A4 4"<0?= "9 4A 0< 2& C:" " @ 2" 2:< "9< =4 " " 0 ' 42@< 59 :0B C< <B:@<B " 9< A < <G 0:" 24 ?0 ; "5) 9< @<5 "94" <4@9 =45 " ; 4 2"4 2 =< < B< 2<BF <4" "4 2 A ; 5<B 04 -< 5:C5 B <5F "9< (<4-:< =45 " C< B< <25 G< <25 G< 45 ; -9" C< <N:5 "<) 4A 0< 2 =45 - G<2 " 00 4 @9 KK " 4@@N " "9< "< ; 5 ; <2" 2<B 4C G<)

G<2 =9 0< "9< <4"?94:; 2" =45 2 "9< ; 4> 2-3 " =45 B4"<B 4 @9 K& "9 :-9 2 " 4@":400?5-2<B " 00 "9< W"9 3 "5 < <@"5& @ ; C 2<B = "9 "9 5< B < J5 ; G< ; <2"& C<-42 " C< <0") "< 4A 0< 205 B<A4 ":< ; ?<5& 20?4 <=" A5 :2B< :B 2 "& 4@B 240B& 42B 094:B < ; 4 2<B 2 2" 4 ?F 42B 2 '<C :4 ? Y !@9=4 a<2C< -=45 4-4 2 4C0< " B< 4 -<2< 40 4BG42@<) 9 5 A G<B "9<": 2 2-A 2" 9<@4 ; A4 -2) "< 4C 4G< <5 5"42@<& :B 2 " =45 :"" < 0?B< <4"<B 4" 4 5A :C<) 9< 00 <5 " >9<4 "F ?<5 =45 <"4><2F 42B "9< =9 0< ' <2@9 @< =45 B G<2 C4@>C<? 2B "9< !<2<) 2 4 @9 Y !@9=4 a<2C< -B <=: A 4 ; < ; 42B:; B<5-24" 8 $4 5 45 "9< - 40 400 A< 4" 25) 2 "9< 54 ; < B4? 0:@9< : -9" "9< 5" " 9<240 5< <5 9 5 C4""0<5)

9< ' <2@9 94B C<<2 @<B " 4C42B 2 0042B 40 ; 5" = "9 :" 4 5" :--0<) 2 <@< ; C< & K K & "9< A 2@< 42-< 94B ; 4B< 9 5 <2" ? 2" " "9< 4-:<) 0 = @@:A <B "9< @ ; " ?= "9 9 5 $:55 42 @ A5 42B 5 ; < :55 42 B<"4@9 ; <2"5 :2B< % 2a 2-< B<F 42B "9< ' <2@9 =< < 50 =0?B G<2 :" <0-:;) < < "0 5 A< 4" 2 =45 @ ; A0<"<& % 2a 2-< B< 42B 0 =<@< G<B B< 5 ; " 0:@9<) 9< " A5 "94" <; 4 2<B C<9 2B =< < :2B< "9< :>< % < ; 4 & =9 4 0<B " B G< "9< ' <2@9 40" -<"9< ;" 9< <"9< 042B5) 2 "9< 5 :"9 %<00 2-" 2 B< 04"<B ! :0" 4" "9<a ' <C :4 ? YE& 42B 00 = 2-:A 9 5 5:@@<55 @@:A <B B<4:D 4 @9 K E)

% 9 0< 4=4 " 2-' "9< 4 G40 ' < 2 @< ; <2"5 DH ;' "9< 2 "9& 0 : @9< ' =45 94 B A <55<B& 5" C?' 422 2"" 42B' " 5& "9 ' C?' <?& 2400?C?' 4A 0< 2)' 5' 20?@ : 5< =45 " ' - ' " ' ; <<"9 5 5 : AA "5)' <"9< < < @ 55<B' "9< 52<& 42B& "4> 2 -' 4BG42"4 -< ' "9< 5 : <2B< ' ' ! 55 25 2' 4 @9' & < <@"<B' 9 5 : 2@" 2' "9< 54 ; < B4?)' 0 @9< J5 4 ; ? 2 =' 2 : ; C< <B' K & ' ; <2& 4' @< 5 ' 5 : A< ' " ' "94"" ' 9 5 AA 2<2"" 45 " ' <24C0< 9 ; ' 4-4 2' " ' "4>< 9< <25 G<)' 94"" "9< 4BG42@< B B' 2R8 ; ; <B 4"<0?"4>< A04@< =45 B : < " ' G4 : 5 <45 25)' D@<55 G< 5" 4 2' 49Z <D@ "< ; <2"" 94B' ; B' "9< G<"< 42' ' <0B ; 4 5940 2' 4' 5 @> C<B' 2< 5<24 :' 42B' : 0 2-' 405 ' <00 00F' 42B& 2' @ 25<N : <2@<& : 2 "?' 49B' <2< -? ' @ ; ; 42B' =< < =42" 2-)' $ 0 " @40 @ 25 B< 4" 25' 405 ' @4 ; < 2)' "" =45 <0"" "94"" 400 "9< = >' =45 C< 2-' "9 =2' 2' "9< $: 55 42' 4 ; ?F "5 2 : ; C< 5 =< < B= 2B0 2-F 42B' ?<"" "9 5 4 ; ? =45 400 "94"" 5<@ : 8' " ' $: 55 4' 4' A04@< 4 ; 2-' "9< <4"" $ =< 5)' "" =45 "9< < < B<"< ; 2<B' " ' A @<<B' " ' (4 2& 4' 5" 2-' A 5 " 2' 2' 9 -9' - : 2B& 5 : : 2B<B' C?' A<2' @ : 2" ?' =9 @9' = : 0B' 8 G<' : 00 4BG42"4 -< " ' "9< 5 : A< ' 5" <2 -"9' ' "9< 00 <5)' 2' 4A 0< 2J5 4AA 4@9& 0 : @98' @@ : A <B' "9< A04"<4 :' ' 4 22< = "9' 4' @< ' U& ' : 55 425)' 9<5< " 8A 5' =< < 4""4@><B& 2' 4 @9' Y& C?' Z & ' ' <2@9& 4-4 25"" =9 ;' "9<?' 9<0B' : "" ' 4' =9 0< B4?& 2 0 @" 2-' 2' "9< <2< ; ?' G< ?' 9<4G? 0 55<5)' "" =45 20?' = "9' B 0@ : 0 ?' "94"" "9< 4 ; ? ' ! 0<5 4' 8 <@"<B' "5' @ 2@<2" 4" 2' 4"" (4 2F C : "" "94"" A< 4" 2' %45 A 4@" @400?' @ ; A0<"<B' C?' 4 @9')

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S' "

' ' ! ' ! ' K ! KZ UE)

' ' J@0 @>' 2' "9<' ; 2 2 -' ' 4 @9' 5 75 ' :0< 5' ' :55 4' 42B' $:55 4' B<' 2" ' $4 5)' ' ""' <4 0?' B4=2' 4' G45"' @ =B' 94B' A 5"<B' "5<0 '40 2 -' "9<' :"<' ;' "9<' ' 4 : C :-' ! '" 4 " 2' " ' "9<' -4 B<25' ' "9<' : 0< <5&' 42B' =4"@9<B' 2' 54B' 42B' 42D :5' 5 0<2@<' "9<' 0 2 -' A @<55 2' ' < -2' " A5)' ' <=' 59 :"5' 540 : "<B' "9<' 2 C0<' A <5<2@<' ' "9<' 54 &' ' 45' ' 4BG42R8' 40 2 -' "9<' :0<G4 B5'F' C : '" "' =45' 2 "' " 00' 9<' "<4@9<B' "9<' :0<G4 B' B<5' "40 <25' "94"' 9<' =45' ; 4B<' 4=4 <' ' "9<' <D 5"<2@<' ' 4' : C 2' A "?' 2' $4 5)' < <' 0 : B' @ <5' ' [' . ! ' '6 ! %' <2'" "9<' 4 F' 42B' 4' A4 0?' ' 5 ; <' "?' ? : 2 -' 2 C0<5' 4" 2<B' C?' "9<' ' 2 5?' B<; 25" 4" 2' ' "9<' 5 : 00<2' " 42N : 0 "?' ' "9<' ; C)' 05<=9<' <' "9<' <' =45' 94 B0?' 4' " ><2' ' ?40 5'" 5? ; A4"9?&' ' 4' @0 : <' " ' "9<' <40' <<0 2 -5' ' "9<' @4A "40)' # <'" 4' ?40 5'" < ; 554 ?&' 4 2' B<' " <5&' 94B' 455 : <B' "9<' 54 ' "94'" $4 5' = : 0B' B<@04 <' 2' 2 ' : 2@< "4 2' " 2<5' ' "9<' <5" 4" 2) 2' "9<' 4C5<2@<' ' "9<' ; A<' ' : 5" 4&' '" 04?' = "9' 0<D42B<' " ' B<"< ; 2<' "9<' : " 2<' - G< 2 ; <2'" ' ' 42@<)' '" =45' 4' A C0< ; ' = 9 @9' 9<' 94B' ' 5 ; <' " ; <' A48' C<<2' 42D :50?' @ 25 B< 2 -&' ?<'" = "9 :'" <4@9 2 -' 4' A 5 " G< 5 0 : " 2)' <' =45' @0<4 ' "94'" 4A 0< 2' =45' ; A 55 C0<F' C : '" 9 5' G <=5' 45' " ' "9<' 5 : @@<55 2' =< <' 5" 00' 0 : B' 42B' : 2@< "4 2)' < ; 4B ""' <42B' : - <2<' =< <' "9 : - 9'" ' 4' ; ; <2'" 42B' =4 G<B' 45 B<)' ' = 5<0?' -42 5<B' <A : C0 @ 3 5 ' '" =45' 9 2"<B'" ' 4' ?40 5'" 4 - <2" 3 8 ; -9'" C<5'" 4@@ B' = "9' "9<' ' <2@9' 5A "F' C : "&' ' "9<' ' <2@9' B B' 2 '" @4 <' ' 4' <A : C0 @&' "9<' <' =45' "9<' 40"< 24" G<' ' "9<' : C 25)' A 2' "9<' N : 40 " <5' ' "9<' : C 2' @4 : 5<' "9<' 54 ' 94B' A 2B< <B' ; : @9&' 42B' 9<' : 2B' "9< ; ' B : C : 5)' 9<' A 2@<5' = : 0B' <"' : 2' < ; C ""< <B' C?' ; 5 " : 2<F' 42B&' <G<2' ' "9<?' @ : 0B' ; 45"< ' "9< ' =2' <5<2" ; <2"5&' "9<' 42 ; 5 " <5' ' "9<' ! ' = : 0B' A G<' 0<55' 4 ; <24C0<' " ' B 5@ A0 2<)' 9<' 4 ; ?&' "9<' $ "<5"42"5&' "9<' 5A '" ' "9<' 2<=' -<2< 4" 2&' = : 0B' C<' AA 5<B' " ' "9< ; F' 42B' '" =45' B : C" : 0' =9<"9< ' "9<?' @ : 0B' <0?' : A 2' 42?' 5 : C5"42" 40' ; <45 : <' ' 5 : AA "')' '" =45' " : <' "94'" ?40 5 ; ' =45' ; 4> 2 -' 9<4B' 2' 5 ; <' <- 25' ' 9<' 5 : "9&' 42B' "94'" "9<' : <' B 2 - : 0< ; <' 94B' C<<2' <@< G<B' = "9' 4@@04 ; 4" 25' 2' B<4 : D)' : '" 0<D42B<' ' 42B' <""< ; @9' =< <' C "9' ; A <55<B' C?

) DG2)

UU) + , ' " ' ' ++ , I0

"9< 4@'" "94'" 2' "9< = B<4 <4'@ G< <B'C?' "9< <45"< ;'@4 ; A4 -2' "9<?' 94B' C<<2' :24C0<' " 'B 5@< 2' "9< 4 2"<5'" " 4 8' '4' : C 2' A4 "?)' !" 00&' ' 42@<' 59 :0B' B<@04 <' '"9< 0B' ; 24 @9?& 0<D42B< ' =45' 2 '" A <A4 <B' " ' AA 5< 9< ' 9 @<)' 9< <' =45' 4' 5"4"<5 ; 42' 2' $4 5' =9 ' 94@0' 04 B' 4' A 0 8 ' ' D 8' "9< =4G< 2-' A: A 5< '"9< 54)' 400<? 42B& =9 5< 5A<@ 40' - '" '" =45' " '59 2< VV 2' 4' @ 5 5' '4'" 4' @ 2- <55&\' 94B' B<"< ; 2<B' " ' 94G<' 4' B <@'" 42B' A< 5 240' 594 <' 2' "9< A 0 " @40' 5<""0< ; <2")' %9<2' "9< @ 40' = 0B' 0<B' C?' @ ; ; 42B' " ' 0 5& C<' @ 2" G<B' " ' C<' ": 2<B' C4B'" 4'" "9< C4 < & 42B' 9 5' " ' C<' 0< '" "9< 5 0<' A< 5 2' ' ; A "42@<' 2' "9< @4A "40' <' 94B' -4 : -<B' 0<D42B< & >2<=' "94'" 9< 94B' ; A <55<B' 9 ;' 2@<& 42B' =45' @ 2 B<2'" "94'" 9<' = :0B' C<' 4C0<' " ' ; A <55' 9 ;' 4-4 2)' 2' 42' 2" "< G <=' = "9' <55<0 B< 9< 2G "<B' "9< 54 ' " ' C<' 9 5' - : <5"& 9< 54 ' 4@@<A"<B' "9< A A 540)' [ )' B<' 400<? 42B&\' 9< 54 B& [' 94G<' B<"< ; 2<B' " ' 5"4?' 2' ? : ' 9 :5< C<@4 :5< ? :' 94G<' ; ?' @ 2 B<2@<' 42B' "94'" ' ; ?' 400 <5)' %<' B ' 2 '" = 59' " ' B<"< ; 2< 42?B 2-' C< <' =<' 94G<' 9<4 B' ? :)' # :' >2 =' ' 42@<& "5' 2<<B5' 42B' B<5 <5)' !4?' =94'" =<' : -9'" " ' B & 42B' =<' = 0' B ' ")\' 400<? 42B' <A0 <B& [' %<' @42' B ' <G< ?"9 2-' = "9' 4' A 2@ A0<)' ' A A 5<' " ' 4@@<A'" "9< A 2@ A0<' '0<- " ; 4@?& =9 @9' <@4005' " ' "9<' "9 <' "9<' $ 2@<5' ' "9<' :5<' ' : C 2)\' 9<' % -' <2 : ; < 4"<B' 9 5' B :C"5)' :0B' ' 42@<' C<' B<"4@9<B' ;' "9<' @9 <' ' =9 5< @4 :5< 59<' 94B' :5'" : -9'" = "9' 5 :@9' B<5A< 4"<' 9< 5 ;'g' % :0B' 59<' 4@@<A'" A 2@<5' ' =9 ;' 59<' 94B' ; 42 <5"<B' "9<' ; 5'" C ""< ' 94" <B' B: 2-' 4' A< B' ' "=<2"?' ?<4 5)' % :0B' "9< 0B' ; 24 @9?' <@< G<' 42?' @ 25" ": " 240' 5 :AA '" ;' @ :2@ 05' @ <4"<B' C?' 4A 0< 2' 42B' ; 422<B' C?' 9 5' @ <4" : <5'g' ' "9<5<' C <@" 25' 400<? 42B' <A0 <B 3 42B' 9 5' 455 : 42@<5' =< <' @ 2 ; <B' C?' 40C< -& (: 5& 42B' B<' $ 4B"& =9 ' 94B' C<<2' 5: ; ; 2<B' " ' "9<' @ 2 < <2@< 3 "94"& ' 2@<' '" =< <' ; 4B<' @0<4 ' "94'" 2 ' A<4@<' ' " :@<' = :0B' C<' ; 4B<' = "9' 24A4 "<& "9<' (<- 504" G<' :2@ 05' = :0B' "9< ; -<0G<5' 2G "<' "9<' : C 25)' 0<D42B< ' =45' B<<A0?' ; A <55<B)' <' =40><B' :A' 42B' B =2' "9<' ;' <204 - 2-' = "9' < ; " 2' :A 2' "9<' 9 5' ' =4 ' 42B' "9<' @ ; <5' ' 4A 0< 2& 42B' "9<2& ": 2 2-' " ' "9<' / 2-' ' $:55 4' 42B' $ 2@<' ! @9 = 4 a<2C8& 2G "<B' "9< ; ' " ' @ 25<2'" " ' 4' A @04 ; 4" 2& =9 @9' 59 :0B' A0<B-<' "9<' $ =< 5' 2 '" " ' " <4'" = "9' 4A 0< 2' ' 42?' ; < ; C<' ' 9 5' 4 ; 0?)' = ' 9 : 5' 4 "< =4 B5' "9<' A @04 ; 4" 2' =45' A 5"<B'' 42B' 4' <-<2@?' :2B<' 4 <' (: 5<' =45' "9 :5' ; 400?' <D@0 : B<B' ;' "9<' 5A9<' <' A 55 C0<' 5 0 :" 25)' 2' A 0' K 4' $ G 5 240' G< 2 ; <2'" =45' 24 ; <B& 2@0 : B 2-& 2' "9<' A< 5 2' ' 2"<5N : & 4'" 0<45'" 2<' @ 2 B<2" 40' 9 <2B' ' "9<' C42 59<B' / 2-)' <D'" B4?& "9<' !<24"<& 45' A0 42'" :2B<' 400<? 42B' 45' :2B<' 4A 0< 2& B<@ <<B' "9<' B<A 5 " 2' ' "9<' ; A<)' 9<' (<- 504" : <' 4" <B' 42B' "9<' 04= @ : "5' 4@@04 ; <B' "9<' B<@ 5 2)' !<25 C0<' ; <2' 54=' "94'" <2 : -9' 94B' C<<2' B 2<' ' @9 G40 ?& 42B' "94'" 20?' "9 : 5' @ :0B' ' 42@<' C"4 2' 0 C< "?' 42B' A<4@<)

' "?' ; 0<5' 4=4?& 2' "9<' A404@<' ' ' 2"4 2<C0<4 : & 54'" 4A 0< 2)' '" 5' " :<' "94'" "9<' @<' 4 :2B' 9 ;' B B' 2 '" <D@<<B' & ' ; <2F' C : "

; 45@: 2< C <& 4 8' 5"4 ; ' ?40 5"# @ <<B& 5C< = "5 288 <5" ""<B# " ' ; A": < "9< 9<4 "# ' % @<)' < '0 < 94B' C<<2' 4"400?' C0 -9"<B' 2' "9< < ; A0< A 5 2)' 2' "9< ; 40< ; < ; C< 5' ' 9< ' :5< "9< < =45 0 ""0< ' 242@<& ' " 4-<B?& ' ' 9< 5 ;)' &

9< "= ' 5"# "45>5 ' "9< 2<=' G<2 : 2<2"# =< < " ' B 4=' : A' 4' 2m 5" " : " 2' 42B' " ' 5 -2' 4' A<4@<)' ' ! <0<@"# 2 : ; C< ' '5<24" 5' 42B' B<A : " <5 =45' 4AA 2"<B' " ' @ 2 < ' = "9' "9 <2 ?40 @ ; ; 55 2 05' : 2B< ' "9< A <5 B<2@?' ' 4 ; C 4?& "9< 2<=' 942@<00 & 42B' " ' A <A4 < 4' 94 "< ' ' "9< 4@@<A"42@< ' 94 ; C< 5)' 9< 25" " : " 2' '4' : 5< '9< <m B "4 ?' \$<< 5& 24 ; <B' C?' "9< / 2 -& : 20 ; "<B' 2' 2 : ; C< & B<0 C< 4" 2 -' 2' 5<@ <"& 42B' 2G<5"<B' = 8' "9<A = < '" ' " ?' @45<5 '9 -9' " <45 2& =45' A455<B' = "9' "9< : 2B< 5"42B 2-' "94"# "9< 5<24" 5' 59 : 0B' A <5< G< "9< ' <2B =m ; <2"5)' ' 94 ; C< ' <A : " <5& " ' C< @ ; A 5<B' ' "9< A <5<2"# ' "9< <D 5" 2 -' 0 <- 504" 5& C : "# 2' "9< : " : < " ' C< <0<@"<B' 2' 4' 9 -9< ' 42@9 5<& =45' " ' 2 " 4"< 400 ; 2<? C 005)' "# =45' 2' 4@@ B42@< = "9' ' <2@9' " 4B m " 2' "94"# "9< 9<4B' ' "9< G< 2 ; <2"# 59 : 0B' 94G< A = < '" ' ; 4> < : 0<5 42B' B 242@<5' [' 2<@<554 ?' ' "9< <D<@ : " 2' ' 04=5' 42B' "9< 5<@ : "?' ' 9< ! "4"<\ F 42B' 2 ' B42 -< ' =45' 42" @ A4"<B' ; " 25' C 42@9' ' "9< A < -4" G<)' 9< -9"# ' ; " 4" G< ; 4B 08504" 2' = 45 4@@ B<B' " ' "9< = 2F C : "# "9< 94 ; C< 5' = < < - G<2' "9< A = < '" ' 5 : - -<5"# "9< A 2@ A0<5' 42B' <G<2' "9< B<" : 05 ' C 005)' 9< <DA<B <2"# ' 4' G 0' (5"# G "<B' ' 0 < =45' 2< ' =9 @9' "9< ' ; 0@9' ; 2B' =45' 0 2 -' A <A ; <B)' 9< 5?5"< ; ' ' "9< "4& C?' =9 @9' "9< 94 ; C< ' ' <A : " <5' =45' " ' C< <2<=<B' C?' 4' "9' <G< ?' ?<4 & 94B' C<<2' " <B' : 2B< ' "9< <@" ?F 42B& "9 : -9' A< 94A5' : 2 4G : 4C0< " ' "9< <5"4C0 59 ; <2"# ' 5" 8' A4 "?' - G< 2 ; <2"& "# 5<< ; <B' 0 ><0?' " ' B ; 2 59' "9< 2"<25 "?' ' <0<@" 40' @ 5<5)' ' <<B ; ' ' = 59 A' =45' <4B 0?' 4@@ B<B' " ' 400' "9< @ <<B5F 42B' 20?' : ' G @<5' =< < 4 5<B' 4-4 25"# B<@04 8' "9< 4" @' 4 "9' " ' C< "9< 5"4"< <0 - 2)' "< ' 4' 9<4"<B' B 5@: 55 2& "9< ; 4 2"<242@< ' "9< <G 0 : " 24 ?' 042B & 5<""0< ; <2"# =45' : 2@ 2B " 2400?' - : 4 42"<<BF 42B' = 5< A G 5 25' =< < 4BB<B' " ' 5<@: < "9< 4C 0 " 2' ' @ 2 5@4" 2& "9< <"<2" 2' ' "9< : ?& 42B' "9< 2B<A<2B<2@< ' "9< : B @ 40' C<2@9)' : "& =9 0< "9< 0 C< "?' ' "9< A <55' =45' ; 400?' A< ; ""8' "# =45' B 5" 2@"0?' 5 "<B' "94"# 04=5' = : 0B' C< A455<B' " ' @945" 5< "5' 4C : 5<)' ! : @9' =< < "9< ; 4 2' : "0 2<5' ' "9< 94 "<)' D" < ; < ?40 5"5' <5<2"<B' "5' @ 2@<55 25F)' 42B' 24A4 " 5"5' =< < : " 4-<B' C?' "9< @0 5 2-' = B5' [' G<2' 4"# \$4 5' 2' "9< ?<4 ' ' - 4@< K KZ' 42B' 2' "9< 2 2<"<<2"9' ?<4 ' ' : ' < -2)\' 9< = B' [94 "<B\' "5<0 & 42B' "9< 42@ <2"# A <0 : B<& H \ ' ! # ! 'A ! ' ! ! ' ' %' 59 =<B' @0<4 0?' <2 G -9' "94"# "9< @ 2" 4@" : 40' "9< ?' 5 G<m < -2"?' 94B' C<<2' @45"# " ' "9< = 2B5)' !" 0 "9< C : 0>' ' "9< 24" 2' =45' 54" 5 <B)' 9< 94 "< ' < ; C B <B' "9< 9 -9<5"# A 0 " @40' = 5B ; ' =9 @9' 94B' C<<2' <D" 4@"<B' ; ' "=<2"? G< ?<4 5' 'B< ; @ 4@?' 42B' B<5A " 5 ;)

G<2' ; < ; A "42"# "942' "9< 94 "< ' %45 "9< <4"?' ' \$<4@< C<"=<<2' ' 42@< 42B' : A<& 5 -2<B' 2' A 0' & 42B' A : C0 59<B' 2')6 : 2< Z)' 9< 5 ": 4" 2' =45 5 : @9' "94"& =9 0< A<4@< =45' 4' ; 5"# ; A< : 5

)' X) 3

2<@<55 "?' ' 42@<&2 -0 :5' 9 "" : 4C0< A<4@<' @ :0B' C<' @ 2@0:B<B)' "' =4j' 2<@<554 ?' " ' = "9B 4=' "9<' ' <2@9' -4 5 25' C<? 2B' "9<' 9 2<' 2' B< ' " ' A: @945<' "9<' < ; G40 ' "9<' < -2' 4 ; <5' ; ' "9<' 5 0 R ' ' 42@<F "' =45' 2<@<554 ?' " ' 4 @8"' "9<' A A 540 ' <""< ; @9' "94"' 400 5A<@ @400?' ' <2@9' @ 2@< 25' 59 :0B' C<' %< <' 42B' "9<2' 5<""0<B' 2' $4 5& =9 0<' N:<5" 25' 4 <@" 2-' "9<' C4042@<' A =<' 2' : A<' 59 :0B' C<' <5< G<B' 4' @ 2- <55' 2' <224)' "' = :0B' 94G<' C<<2' " B42-< :5' " ' B< < ' "9<' @ 2@0:5 2' 00 <' A<4@<& 2' "9<' 9 A<' <D" 4@" 2-' 4BG42"4-<5 ' ' 42@<' ;' "9<' B 55<25 25' =9 @9' =< <' 5 <' " ' 4 5<' 2' <224)' 2B<<B& "9<' 00 <5' %< <' ; 45"< 5 ' "9<' 5 ":4" 2& 42B' @ :0B' B @"4"<' "9< ' "< ; 5)' 0 N ' =< <' :00?' hB G<' " ' "9<' 2<@<55 "?' ' " <4" 2-' ' 42@<' = "9' -<2< "?& 42B' ' @ 22<@" 2-' "9<' 4BG<2'" ' "9<' 2<=' B?245"?' = "9' 4' A A:04 'A<4@<)' %9<2' ' 42@<' B<@0 2<B' " 'A4?' 4' =4 2B< ; 2 "?' " ' $:55 4& :55 h8' 2-042B& 42B' :5" 4' 4@N: <5@<B' 2' 9< ' < :540F 42B' "9<' B< ; 42B' =45' = "9B 4=2)' 9<' 4 " -400 ; <5' ' $h 5' =< <' A< ; ""<B' " ' <"4 2' "9<' 5A 05' = "9' =9 @9' 4A 0< 2' 94B' <2 @9<B' "9< ;)' 9<' A G 5 25' = "9' ; < <2@<' " ' "9<' 59 A5' 2' :"@9' =4"< 5' =< <' 0 C< 40)' :'" "' =45' 4' 5<""0<B' A 2@ B<' "94'" 2< "9< ' 2' : A<' 2 ' 2' "9<' @ 0 2 <5' ; :5'" ' 42@<' <G< ' 4-4 2' C<' A< ; ""<B' " ' <D< '" 4' 9 ; -< :5' A <A 2B< 42@<)' <0- : ; & "9< (; ' 42>' ' "9<' 9 2<& "9<' @ 2N:< <B' 042B5' 2' 00< ; B& < ; 42?& ! = "a< 042B& 42B' "40?' =< <' " ' C<' @<B<B' C?' ' 42@<)' 9<' 2" < ' ' "9<' 400<2' ; 24 @9?' KYW E' =45' " ' C<' "9<' 2" < ' ' "9<' ; 24 @9?' <5" <B& = "9' 42' 4BB " 2' ' "< " ?' @ ; A 5 2-' 2"CB0 4 B' 42B' G -2 2& 44 ; C< ?' 42B' 22<@?)' 9<' 0 <' BK' ' 42@<& C4- & 42B' !42"4' (:@ 4' %< <' <"4 2<B' C?' ' 2042B& =9 B ' 94B' 4@N: <B' "9< ; ' B: 2-' "9<' =4)' 9<' @ :2" ?& =9 @9' 9h B' 2 : 59<B' ; 42?' 00:5 25& h 2B' "9<' : "& =9 @9' 94B' " <B' " ' C"4 2' (:D< ; C: -' ; B' 4' 0 2<' '5" 2-' <0- 42' " <55<5& =< <' C ""< 0?' B 54AA 2"<B' 4'" 5 ' 284- <' 4' 5<BG4-<F 42B' "' =45' 2 '" "9< 0<45'" ' "9<' ; B<5< G<B' ; 5 ":2<5' ' "9<' : C 25' "94'" "9< ' <5" 4" 2' =45' h 55 @ 4"<B' = "9' "9<' 24" 240 9: ; 0 4" 2' ' 4' @ 2" 4@"<B' 2" < ' 42B' 4C42B 2<B' @ 0 2 <5)

2' 5A "<' ' "9<' "< ; A 4 ?' <2"9:5 45 ;' =9 @9' "9<' <" : ;' ' "9<' : C 25' 9h:0 <G ><B& "9<' @ 2B " 2' ' A:C0 @' A 2 2' 2' ' 42@<' =45' B 5N: <" 2-)' 9<' 4 ; ?' =e5' ' "9<' ; 5'" Ah: '" B 54 <@"<B' " ' "9<' =9 "< @>hhB<& 42B' " ' 5:@9' <D"<2'" B<A0<"<B' C?' B8< " 2' "94'" 2' A 0 5@ :@ ? W & ' ; <2' < ; 4 2<B' :2B< ' h ; 5)' 9<' "9 <<' ' : ' ; 00 2' A 55<55 5' ' 24" 240 042B5' " < ; C0<B' ' "9< ' A A< "?& =9 @9' 94B' C<@ ; <& <2 ; :50?' B<A <@ 4"<B' C?' <45 2' ' "'"<' A <G4 0 2-' 25<@: "?)' 9<' A<4542" ?' 940 ' 8A<@"<B' "9<' < ; A 5 " 2' ' " "9<5' 42B' <:B40 B:<!)' 2' V ; 42?' A04@<5' "9<' G 004-< 5& 2B -2 ; '" 4'" "9<' ; 4 2"<242@<' ' "9<' # B G<' :'" "9<' "4D @ 00<@" 5' 42B' C: 2'" "9< ' <- 5"< 5)' 9<' 8 <" 25' 42B' <2B<425' =<2'" 5" 00' : "9< & 42B' < :5<B' <G<2' " ' A4?' B <@"' ' "4D<5)' [' % <' 94G<' :-9'" ' "9<' / 2-&\' "9<?' 54 B' [' =<' :-9'" 2 '" " ' A4?' 42?' "<D<5' 4'" 400)\' 2' 5 ; <' A04@<5' "9<' 0B' N:4 <0 C<"=< 4' "9 5<]' =9 ' 0: :0 4@@<A"<B' 42B' "9 5<' =9 ' <5 5"<B' <' 2@ B4'" C ><' :"]

U ' ; ' ' ## ' I0 KZ

<A "5 " ' 2 ; g\' 54 B 4 2 L(@2, 5 " ' <A-2 ") WW # :' ; -9" 45 =<00 ; 8<' "9< ;' " ' 4' 54 2" 2' 4' 2 @9<) ' :5" 5 ; A0?' - G<' 9 ;' B 242@<5 " ' 5 -2& 42B' 9<' 5 -25)\

9<' = "5' 4A"0?' B<5@ C<B' "9<' 5?5"< ;' ' - G< 2 ; <2" 45' [A4"< 240 424 B ?\ F 42B' %<00 2-" 2' 54 B' " :0?' "94" "9< <' =45' 2 ' 2 58& 20? 2 5"< 5) G< ?' G <=& ;' "9<' 5" @" @ 25" ": " 240 5 ;' ' 4 2' (:5 " ' "9 ' <4@" 24 ?' ?40 5 ;' ' 4 ; C 4?' 42B' '< 42B& =45' <A <5<2"<B' 4 ; 2-' "9<' 2 5"< 5) ! B<' C?' 5 B<' = "9' "9< ;' 54" "9<' $ 2@<5 3 8 25<: & "9<' @9 < "4 2' ' "9<' 2" 4@"4C0<' ?40 5"5& =9 ' ><A" 9 5' =2' @ : "& 9 5 =2' @4C 2<"& 9 5' =2' A 0 @<& 42B' ; 4B<' 2 ' 5<@ <" ' 9 5' 0 4"9 2-' ' "9<' c 4 "< F 2- :0< ; <& 24 =& -2 42"& 5 0<2"& 4AB' 4=>=4 B& C :" = "9' 5 ;' <' - ; 25' ' - B' 5<25<F 42B' 9"5"0?' < ?& A455 24"<& 5A 2"42< :5& 42B' 2 :B @ :5& 4' - B' <00 =' = "9' 4' C4B' " ; 2A< & =9 ' 0 G<B' = ; <2' 42B' 9 5<5& ;B' = :0B' 2"< :A" 5< :5' @ :25<05' = "9' "9<' 042-:4-<' ' "9<' C4 4@>' ' "9<' 5"4C0<)

!<0B ;' 945' 42?' G< 2 ; <2" C<<2' @ 2 2"<B' = "9' 4' 0<55' <2G 4C0<' 5 ":4" 2)' 9< <' =45' 4' 242B40' B< @ " ' ; ' G<' " ' 5 D' 9:2B <B' ; 00 R2E5' ' 42@5F "9< <' =45' 42' ; ; <25<' B ; 2:" 2' 2' "9<' "4D4C0<' 4 <4& = 2-' " ' "9<' 0 55' ' "9<' 4A 0< 2 @' @ 2N:<5"5F 42B' "9< <' =45' 4' 5<25 C0<' "9 :-9' "<; A 4 ?' ; A G< 59 ; <2" ' ' 42@<' 9< 5<0)' " =45' @< "4 2' "9< < <' "94" 5 8' <B:@" 25' = :0B' 94G<' " ' C<' ; 4B<' 2' "9<' 24G40' 42B' ; 0 "4 ?' <5"4C0 59 ; <2"5F 42B' " =45' <N:400?' @< "4 2' "94" 5:B ' <B:@" 25' @ :0B' 2 " C<' < @"<B' = "9 :" @@45 2 2-' = B<5A <4B' B 554" 5 4@" 2' 42B' B 5" <55) ' =45' " A 55 C0<& = "9' B:<' <-4 B' " ' "9<' <@ 2 ; @' 5 ":4" 2' ' "9<' @ :2" ?& " ' ; 4><' 42?' ; 4"< 40' < ; 55 2' ' "4D4" 2& 2' 5A "<' ' "9<' -<2< 40' <DA<@"4" 2' "94" G] "C' A<4@<' "9<' ; 5" C2 D :5' ; A 5"5' = :0B' 25"42"42< :50?' B 54AA<4) 2B<' 5:@9' @ 2B " 25& 4' G< 2 ; <2" ' 42-<05' 42B' 54-<5' @ :0B' 2 " 94G< 4 0<B' " ' ; 4><' <2< ; <5' 42B' " 'B 54Am A 2" 9 A<5) #<" "9<' ; <45: <' ' :2A A:04 "?' = :0B' B<A<2B' :A 2' "9<' = 5B ;' = "9' =9 @9' 4 4 5' =< <' 4B ; 2 5"< <B& 42B' "9<' 0 ?40"?' = "9' =9 @9' "9<' 94 "<' =45' C5< G<B) 2' C "9' <5A<@"5' "9<' G< 2 ; <2" <00' 59 " ' "9<' 5"42B4 B' =9 @9' "9<' @ :2" ?' 94B' 4' -9" " ' <DA<@")

9< <' =45' 5 ; <"9 2-' G- :5' 42B' 9< @' 4C :" "9<' 242@<' ' 4 2' (:5) <' ; 4B<' A G 5 2' ' "9<' 0 N: B4" 2' '4' B<C" 4 ; :2" 2-' " YUW& & ' 42@5& 42B' 5:@@<55 :00?' <5 5"<B' 4' B 59 2 : 4C0<' A A 540& < ; 424" 2-' ; ' "9<' <D" < ; <' ?40 5"5' ' "9<' 94 ; C< & "94" "9<' ! " "<8' 59 :0B' <A:B 4"<' 2< : F9' ' "9<' B<C" @ 2" 4@"<B' :2B<' 4A 0< 2) <' ; 4 2"B2<B' "9<' :2A A:04 ' "4D<5' ' K K ' 42B' K KZ& "9 :-9' 25 <: ' 42B' 2- :0< ; <' 94B' C<<2' A :5<' 2' A ; 5<5' ' < ; 55 2) 2' 2<' ?<4 ' 9<' B ; 2 59<B' "9<' 24G40& ; 0 "4 ?& 42B' @ G 0' <DA<2B " : <' " ' 4' "9 :B' ' "5 ; <' 4 ; : "& <B:@ 2-' "9<' 4 ; ?' ; ' 4' =4 ' " 2-' ' & ' " ' 4' A<4@<' " 2-' ' K&KZ & 42B' B 5@94 - 2-' "<2' ' "=<0G<' "9 :542B' @< 5 2' 940 A4?& = "9' "9<' -9 "& 9 =<G< & " ' 5:@@<<B' 2' B< ' ' 5<2 "? " ' " = B B5' ' "9<' @ ; ; 55 25' 45' "9<?' C<@4 ; <' G4@42") '" =45' A4 " ' 9 5' B<5 -2& " ' ; 4><' "9<' 0<- 504": <' 42' 4@@ ; A0 @<' 2' 9 5' A4 5 ; 2?

?' 4' <G 0:" 2' 2' <2@9' 242@ 40 ; <"9 B5 9< A A 5<B' "9< C:B-<'" '
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:A 2' "9< A455 2-& '"9< C:B-<"& =45' 42' 2B @4" 2' '9 5' 5< G @<5' " =4 B5'
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B =2' " ' "9< <G< '"9< ' <2@9' <G 0:" 2) 9< A042' C: B<2<B' "9<
C:B-<'" = "9' "9<@ 5"& <D@<<B 2-' & & ' 15)& '4' 5 ; 400 4 ; ?' ' '
@< 5' 9 -90?' A4 B' 42B' <DA<25 G<0?' <N: AA<BF C:'" <DA<25<= 45' 4 ' ;'
C< 2-' "9< ; 5'" C <@" 24C0< <4": < 2' " < 2<='0:D: ?) 9< <5"4C0 59 '
; <2'" ' "9< :5" 0B' A5' =45' 42' 2" ; 4" 2' "94'" "9< ; A< 40
:4 B' @ :0B' 2 '" C< " :5"<B' " 'B< <2B' "9< "9 <) 9< 5"4 G 2-' 940 A4?'
@< 3 42B' "9< < ; C4 55<B' <45: ?' @ :0B' 2 '" 40=4?5' A4?' <G ; ' "9<
940 A4?. 3 @ 2" 45"<B' 9 5' 5 ?' 0 '" = " ' "9< 4 0:<2'" @ ; @< ' "9 :5' A<2<B'
" ' "9< ? :2-' 2AC0< =9 ' 94B' 2<G< ' 5 ; B'" A =B< & 42B' " ' "9< 0B' % '
=9 5< 5= B' 94B' :5"<B' 2' "5' 5@4CC4 B' ' "=<2"?' ?<4 5 ' 9< =9 0<
4 ; ?' <40 5<B' "94'" 5 ; < ' "9< ; 2<?' 04G 59<B' 2' "9< 4G : <B' @D A5
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A ; " 2& =< ; 4?' ; 4- 2< "9< <40 :5 <5' 4 :5<B) 4A 0< 2' 94B'
4BG 5<B' "9< / 2-' " ' " :5'" "9< ; A< 40 :4 B' ' " ' B 5C42B' ") DH: j'
B B' 2< "9<) '" 5' "2 < "94'" "9< A4?' ' "9< g:4 B' =45' ; 4 2"4 2<B& 42B'
"94'" '" =45' A04@<B' :2B< ' "9< @ ; ; 42B' A ' <?' 42B' :B 2 "F C:'" "9<
?40 <24B < 5' ' 42@<& 45' "9<?' =< < 2 =' @400<B& =< < < ; G<B' @:2'
$4 5' 42B' 5:AA042"<B' C?' "9< 2<=' :5<9 0B' " A5) [' # :' 4 < 4C :"&\

@4H) DG)

A) ' < ! ' ' ' # ! ' ' ! $W3!0' 5$ $>

2' A 0 " @g)' 25"42"' 5" 00' -4 ; C0<B' 4"' 2 -9"&' 42B' =45' "9<' 504G<' ' = ; <2F' C : "' 9 5' <D@ "4C0<' 42B' G4 2' "< ; A< 4 ; <2"' =45' @ ; A4" C0<' = "9' @ 25 B< 4C0<' 2"<00<@" : 40' 2 C 0 "?' ' 4' <40' - A' ' @ 25" " : " 240' A 2m @ A0<5)' 2' 2 ' 5 ; 400' ; <45 : <' ' 42@<' =<5' 9< ' 5"' 0<55 25' 2' "9<' A 2@ A0<5' 42B' A 4@" @<' ' 4' @ 25" " : " 240' ; 24 @9?' " ' 9 5' ; < @ : 40' A<2)

9<' - <4"' " A @' ' B<C4"<' 42B' 5 : A<' ' < ; <2"' =45' "9<' 0 ?40"?' ' "9<' G<"2 ; <2"' " ' "9<' 94 "<)' "' 4 5<' 2' @ 22<D 2' = "9' "9<' A <55&' 2' @ 22<D ; ' = "9' "9<' 042B&' 2' @ 22<D 2' = "9' "9<' 9 : @9&' 2<' ; -9"' 40 ; 5"' 54? 9 ' ; ; <D 2' = "9' <G< ?' C 42@9' ' A : C0 @' A 0 @?)' %9<2' "9<' G< 2 ; <2"' C : -9"' 2' 4' 5@9< ; <' ' "9<' @<25 59 A' ' "9<' A <55&' "' =45' C ""< 0?' 4""4@><B' 45' 4' B 5" 2@"' G 04" 2' ' "9<' 94 "<)' 400<? 42B' @ " @ 5<B' "9<' ; <45 : <' 2' "9<' 540 25F' ; "<' "9 : 2B< <B' 2' "9<' " ! F' 4'A ; 2<2"' : C 2' -42&' "9<' A ! ' ' 36 # =<2"' 2" ' AA 5 " 2F' 42B&' "9 : -9' "9<' G< 2 ; <2"' 4@@<A"<B' ; A "42"' 4 ; <2B ; <2"5&' "9<' 0 @<25 2-' @ ; ; 55 2' 20?' A455<B' "9<' $<< 5' C?' 2<' G "<)' 9<' < 0<@"' ' "9<' 4 - "4" 2' 2' "9<' $ 8 ' (4= 3 42B' "' ; :5"' C<' < ; < ; C< <B' "94"' "9<' N : <5" 2' =45' C< <' "9<' 94 ; C< 5' ' 4' A< B' ' "9 <<' ; 2"95 3 ' =44A @8 2B' 42B' " @40)' [' 42@<& '54?5' $45N : < &' [=45' 2 : 2B4"<B' = "9' 54" @40' 7 :2 8CB<"8 = 9 9' <A <5<2"<B' "9<' ; <2' 2' A =<' 45' C<2"' : A 2' <@400 8' "9<' B4?5' ' -2 42@<' 42B' B >2<55)' 9<' 5 : @@<55' ' "9<5<' = " 2 -5' =45' - <4"F' 42B' A : C0 @' A 2 2' 9<2@< "9' 594 <B' "9<' ' <4 5' 42B' "9<' ' 42 - < 5&

2 "9<' ' 9<4"<B' B 5@ : 55 2' 4 5<' G<' ' 4' 00' " ' <5" <' " ' "9<' 6 6 ' 5 : @9' ' "9<' ' 042B5' 45' 94B' 2 "' ?<"' C<<2' 5 0B' C?' "9<' ! "4"<)' 9<' ; <45 : <' =45' : 5"&' 42B' ; -9"' 94G<' A455<B' = "9 : "' @" 2' C : "' ' "9<' 2 : B @ : 5' 5A<<8' ' ' < 42B&' "9<' 2 5"<' ' =9 ' 2" B : @<B' "' " ' "9<' : ; C< 5) [' 9<' 6 5' 94G<' 00 =<B' "9<' -9"' 0 2<)))))) "9<' / 2-' 8 <"5' "94"' 9<' @422 "' 8G<' " ' "9 5' ; <45 : <' 400' "9<' 04" " : B<' = 9 @9' 2' 9>' 9<4 "' ' 9<4 "5' 9<' B<5 <5'\ 3 A9 45<5' 5 : @9' 45' "9<5<' 5<<< ; <B' "2' 2B @4"<' "94"' ; <' =45' " ' C<' B 2<' ' "9<' ' 9< <4 "< & 42B' "94"' "9<' @04 : 5<' 2' "9<' 94 "< ' = 9 @9' B<@ <<B' "9<' 2G 04C 0 "?' ' 400' A A< 8' =45' 2 "' 54 <' ; ' 4""4@>)' 9<' ' ' % ' =45' : 242 ; : 50?' @ 2B< ; 2<BF' 42B' 4' < : "<" 2' =45' A <A4 <B&' 00 2-' : ' @ 0 : ; 25' ' "9<' ' : "&' "9 : -9' "9<' B<C4"<' 4-<B' 42- 0?' ' < -9"' 5 "" 2-5&' "9<' 04 = &' = "9' 5 ; <' 4 ; <2B ; <2"5&' =45' A455<B' C?' 4' 04 -<' ; 4 "?)' 9<' 0 C< 40' AA 5 " 2' 2' "9<' 94 ; C< 5' ><A"' = "9 2' "9<' C : 2B5' ' ; B< 4" 2F' C : "&' 2' "9<' @ : 2" ?' 4"' 04 -<&' '< 42B 5' 2B 5@ <" 2' =45' <4B' 2' "9<' 0 -9"' A' "9<' A : C0 @4" 25' ' "= ' 04 = ?< 5&' 4 B' 42B' ' 40@ 22<"&' @ 2"<2B 2-' "94"' 540<5' ' 24" "40' A A< "?' =<' <' 0<-400?' 2G40 BF' 42B' "9<' 2 < <2@<' =45' -<2< 400?' B 4=2' "94"' "9<' : C 25' =<' <' 4C : "' " ' < ; C4 >' A 2' 4' @ 0 5540' 5@9< ; <' ' <G @" 2' = "9' 4' G <=' " ' <5" 2-' "9<' 042B' " ' "5' ; < ' =2< 5)' 9<' A ; " 2' ' '< 42B' " ' "9<' B -2 "?' ' : 2"&' 4' <=' B4?5' 4 "< ' 9 5' 5A<<@9&' @ 2 ; <B' "9<' = 5"' 5 : 5A @ 25F' 42B&' =9<2' "9<' $4 0 4 ; <2"4 ?' 5<55 2' <0 5<B' 2' <@< ; C< ; ' & K KZ&' "9<' G< 2 ; <2"&' B<5A "<' ; 42?' @ 2@<55 25' 42B' <DA0424" 25&' 94B' 400<2' - <4"0?' 2' A : C0 @' <5"<< ;)

2 B< " C 8 5" <2-"9 " "9< 2 5" ?& D= !& "9< <2B G<2 C< & " 425 <B "9< A " 0 =4 ; : A 2 " ! :0") 9< 2<= 2 5"< =45 2< "9< ; 5" 00:5" :5 "9< 4 59405& 4 5> 0 :0 -<2< 40 42B 4 <5 0:"< 4B ; 2 5" 4" F 42B 9 5 4AA 2" ; <2 " =45 4 " 5" <@< G<B = "9 54" 5 4@" 2) : " 9< 94B 5<2 " 4G : = "9 "9< : " C?" A<2 2-4 5:C5@ A" 2 "9< ; <2 =9 94B 400<2 4 " c : C< 2F 42B " =45 5 2 B 5@ G< " "94"& 2 9 5 B<5 < " A0<45< 9 5 A<= ; 45"< & 9< =45& 25<25 C0< " @ 25 B< 4" 25 B<0 @4@?" 42B "4@")" < C<-42 C?" B< :-40 940 A4?" @< 5 : " $4 5 " "9< C "9A04@<5& 42B 4B A"<B& 9< B B 2 " 5"8-<5"& " < B 8 - G 2-A<25 25 " "9< @< 5 42B 5 0B < 5 "9< ?40 5" 4 ; ?" "9< =<5" =9 94B C<<2 = ; B<B 2 B< <2@< "9< "9 2<) < 5<2" 4 @ ; ; 55 2 2" ; 42B?" 42B "422?& 2< =9 5< ; < ; C< 5& 4 2 "<B " !# =4j 54 B " 94G< @ ; ; ""<B "9< :0<5" @ ; <5 2 "9< @ G 0 =4) < <@ ; ; <2B<B "9< ; "< B< :-<5& 4 ?40 5" 2 C B?& " C< 42B 942@<00 "9< (<- 2 2 :) : " A< 94A5 2 @ @: ; 5"42@< @ 2" C : "<B " @45" 5 ; :@9 B : ; : A 2 9 5 4B ; 2 5" 4" 2 42B : A 2 "9< G< ; <2" 45 "9< 4 4 <2<8 >@<0 ; 425)

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YZ ! > % + I0 KU

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wrote in August, 1814, to his friends, the brothers Grimm, [illegible] wonderful how deep a root all our efforts, hitherto more or [illegible] pended in the air, have now taken in all our hearts."

Moreover, public expectation was enhanced by a widesp[illegible] pression, that the Allied Powers had already agreed on the [illegible] territorial arrangements which the Congress would be invited to [illegible] and guarantee. It was confidently expected that the distribution of the large mass of territories reconquered from France, and the resettlement of the political map of Europe, would proceed on principles ensuring a real and permanent equilibrium among its States, such as had [illegible] established either at the close of the Thirty Years' War or of that of the Spanish Succession. But more than this. In many quarters the hope was cherished that, after promptly solving this part of its task, the great assembly would without loss of time enter upon an ulterior range of labours, equally important and, from a cosmopolitan point of view, more inspiring. It would assuredly safeguard the settlement of the political system of Europe by the institution of an effective and enduring international tribunal. Further, by way of attesting its sincere desire of putting an end to the constant recurrence of war, the Congress would at least attempt to apply the remedy of a systematic, though at first inevitably partial, disarmament. It would encourage the growth of representative institutions, by which Napoleon himself had endeavoured to appease resistance or to conciliate support. It would obey the dictates of humanity, already followed by Great Britain, by extinguishing the African slave-trade, while with the aid of the same Power it would sweep piracy out of the Mediterranean. To the transatlantic colonies of Spain the Congress might perhaps succeed in opening a future of independent life; and, conceivably, freedom of traffic might be secured on the ocean itself, though, to be sure, Great Britain, then still at war with the United States on behalf of her navigation laws, was not likely to modify them in favour of neutrals.

Such expectations and visions as these the Congress was not destined to fulfil within the nine months—strictly speaking, they were barely more than eight—of its existence; but, even if the return of Napoleon had not unexpectedly abridged its course, the leading minds of the assembly at no time shared this widespread conception of the scope of its activity. Indeed, at a comparatively early date in the course of its deliberations, Gentz contrived, through his journalistic friend Pilat, to make public a list of the subjects to be treated at the Congress, which, with the solitary exception of the measures against the Barbary pirates, consisted entirely of such as had been mentioned in the Paris treaties or in the supplements to them.

The primary task of the Congress, the redistribution of territories, was to be carried out in accordance with arrangements concerted by the Allied Powers without consulting France, and explicitly recited in

"&%< 28 *& *9 @ 2" 2 :<B 4" <224 " 4 @9 U) 45""<"<48(5 B< <@" =< < 2 5<@ <" 4C 4B& "9 : -9 "9<? =< < 2 " <D48< 4"<B "9< < 45 "9<? =< < 4 "< =4 B5 4"" 9 ; <F C : " 4" "9< 2- <55 9 5 "<24@ "? A : A 5<& "9 : 8 B< B<B C? 4 0<? 42B 45 : 2B<B 2 -2 42@<& =4? C? 2 ; <425 ; ; G4C0<) %9< < 9 5 4@" 2 =45 =42" 2- 2 @ 25 5"<2@?& "9 5 ; 4? 2 -<24 40 C< 45@ C<B " "9< 4C5<2@< B<4 25" :@" 25F& " 9 5 @4A4@ "? 2 " 20? <""< ; @9& C? =9 5< = 00 9 5 =2 =45 04 -<0? B ; 24"<B& C : " 5 @42B B 42 C5< G< 45 4-< 2& C<4 5 G< ? B 5" 2@" "<5" ; 2?) 9< <": 2 4A 0< 2 ; 0C4 5 2 @400<B 4=4? %<00 2 -" 2 ; "9< 2- <55 " 9 5 045" 42B ; 5" 4 ; :5 @4 ; A4 -2F C : " 2 "9< 594 < =9 @9 9< " > 4" ; ; 4 C "9 9 "9< ; ; <B 4"< ; <45 : <5 2<@<55 "4"<B C? "94" <": 2 4 B 2 "9< ; 4""< 5& 5 : @9 45 "9< 5<""0< ; <2" "9< <"9< 042B5& 9< B 5A04?<B 9 5 94C " : 40 B<4 2<55 42B A ; A" " : B< B<@ 5 2) 9< "9< " 59 A0<2 A "<2" 4 <5 =< < "9< 4 0 0 42@4 "?& 405 4 ; < ; C< " "9< 4C 2<"& 4 : B @ :5 42B A4 25"4> 2- 59B< ; 42F 4 0 4"9@4 "& " 59 2 5"< 4" ! " $<"< 5C : -& 4 - B ; 42 C : 5 2<55 45 =<00 45 4 ; 0 "4"? @< " @ ; ; 42B 2- A <5<2@<F 42B 45"0< <4-9J5 <0B< C "9<) (B ! "<=4 " 4 "< =4 B5 4 N : 5 2B 2B<2?E& =9 5< <@<2" 4AA 2" ; <2" " "9< <224 < ; C455? 400<? 42B <-4 B<B 45 5 -2 @42" 4 = 59 " 5 : AA " $: 55 4 4-4 25" $ 42@<) ! 4" B ; 2 2-& " 59 2 5" ; 8 4" < 2& =45 @400<B 2 " 455 5" 2 "9< ! = 55 ; ; ""<<)

9< 5" $: 55 42 A0< ; 0A "<2" 4 ?) $ 2@< G 2 4 B<2C< -& 942@<00 ! "4"<& 94B 9 5 @ 00<4- : < 4 A2 % 09<0 ; G 2 : ; C 0B"& =9 =45 405 4@@ <B "<B 45 2 5"< 4" <224F 2B<<B& C? <45 2 4 B<2 C< -J5 B<4 2<55& : ; C 0B"J5 A <5<2@< @ : 0B 4 <0? C< B 5A<25<B =" 9) 0"9 : -9 "9< B < <2@<5 C<"=<<2 "9<5< "= < ; 2<2" 5"4"<5 ; <2 2"< < <B = "9 "9< 5 : @@<55 "9< <2B<4G : 5 4" "9< 2- <55& ?<" <4@9 "9< ; %45 A < < ; 2<2" "9< < C? B 5" 2@" G< N : 40 " <5 9 5 =2) 4 B<2C< -J5 = B< @ : 0" : < 42B ; 2 G400<B <DA< <2@< =< < @ ; C 2<B = "9 4 5 2 - : 04 <045" @ "? 85 2B) #<"& <G<2 =< B 5@ : 2" " < 5<G< < : B - ; <2" ! "< 2& = "9 %9 5< 4 ; < 9 5 =2 5 5 25<A4 4C0? 0 2><B& =< ; :5" 400 =" 94"& 4" "9 5 @ " @40 ; ; <2"& 9< C<" 4?<B 42 : 2 " : 24"< 2B< 2 "<m 2<55 A : A 5<) : :50? <2 : -9& : ; C 0B"& =9 ; ' <2@9 @ " @5 5A "< : 00? @400<B ! ! # 42B " =9 ; A 0 " @5& 0 >< 400 "9< 5 : C <@"5& ; <B A4 " 4 2<G< <2B 2- A @<55 5<0 <B : @4" 2& 4" " ; <5 59 =<B 4 2 "4C0< <4B 2<55 @ ; A ; 5<) 9< 04C : 5 "9< $: 55 42 A0<2 A "<2" 4 <5 =< < ; 4"< 400? =4 B<B C? "9< 5< G @<5 4 B<29< -J5" : 5"<B 4BG 5< 5& ; <5A<@ 400?"9<9 -9 ; 2B<B ! "4-< ; 422& 6 B42& 42B "9<@<0<C 4"<B 5"4" 5" @ 42 ; 422) ; 2-"9<B A0 ; 4" 5"5 400<B 2 " "9< 455 5"42@< =< < 4 2 G 2 64@ C / 0 <5"& ; 42? ?<4 5 $: 55 42 2 5"< 2 (2B 2& 42B / : 5"< & =9 =45 4@@ <B "<B " "9< : "5 4G4 4 42B % "< ; C< -) <2< 40 G 2 B< ; 2<5<C<@>& =<00 >2 =2 C? 9 5 ; 55 2 " ! " $<"< 5C : -2 K K & =45 2 4"" <2B42@< : A 2 "9< : 2-4" # < ; 4F C : " 9 5 2 0 : <2@< 945 A C4C0? C<<2 ; : @9

) x x) &

U ' > + , ' +# ' 4 , ' 5K KZ U

G< <5" ; 4"<B' 94'" ' ! "< 2& C?' =9 @9' $:55 42' 5"4"<5 ; 4259 A' @ :0B' 2 '" < 0' " ' C< 5A<@ 400?' 2A <55<B& =45' 2' A4 '" <D< "<B' 2B <@"0?' "9 : -9' "9< A "<2'" 2"< G<2" 2' ' "9< 54)

0 9< A< 5 240 "?' ' "9< :55 42' 4 : " @ 4'" = :0B' 2' 42?' <G<2'" 94G< G< 594B =<B' "9< 4@" G "?' ' 9 5' 5"4"<5 ; <2& =9 5< ; A "42@< 2' "9< = >' ' "9< 2- <55' =45' 2 '" 40=4?5' A A " 24"< " ' "9< ' <5A<@" G< @ 40' 42>)' 9< 5'" :55 42' A0<2 A "<2" 4 ?' =45' $ 2@<) 2B <45' 45: ; 5> & =9 5< B A0 ; 4" @' @4 << ' 94B' C<- : 2' 2' "9< @4A @ :5' B4?5' ' 4"94 2<)' 9< 5<@ 2B' %45 :2'" ! "4@><0C< -& "9< :55 42' 2 5" ' 4'" <224F C : '" 4' ; < A ; 2<A'" - : < =45' "94'" ' "9< "9 B& :2'" <55<B B<& ! << <" ; ?' ' ! "4"< ' ' < -2' 4 5)' ' ": 24"<0?' ' "9< A - <55' 'C : 5 2 - & <""" < ; @9' 94B' 0 2 -' A< 5 2400?' " :5"<B' <55<0 B<F 42B' 4'" $4 5& =9<2' 0<D42B8' =45' 5" 00' AA 5<B' " ' "9< <5" 4" 2' ' "9< : C 25& 9< :2B' C "9' "9 5' 5"4"<5 ; 42' 42B' $ aa 'B ' - ' 4G : 4C0<' " ' 9 5' 5 : AA '" ' "94'" 4 ; 0?)' 9 5' <0<2"0<55' 4BG< 54 ?' ' 4A 0< 2' =45& ; :@9' " ' "9< 54" 5 4@" 2' ' (: 5' X & 5 : ; ; 2<B' " ' <224' C? 0<D42B< ' 2' @" C< & K KZ)' 2 "9< ' <@<2'" 4BB " 2' " ' "9< ; A "42'" A< 5 240 2 0 : <2@<5' 5 : :2B 2 -' "9< 54 ' =45' "9< 0 C< 40 5 2 -' C : '" ; 4" : < @ :25<0 ' :2'" 4A B !" 4 !& =9 ' ; ' K K !' =4 B5' 94B' C<<2' @9 ' ' "9< B A0 ; 4" @' B<A4 " ; <2'" 4'" "9< :55 42' 9<4B N : 4 "< 5& 42B' 4'" <224' <A <5<2"<B' :55 4' 2' "9< ; ; ""<B' ' ! = 55' 4 5)' : 2 -' "9< 04"< ' 5 "" 2 -5' ' "9< ! "4" 5" @40' ; ; ""<< "9< :55 42' <A <5<2"4" G< =45' 4 2' 25"<"")' $ 2@< <A2 2' @4 ; < " ' <224' 2' "9< "< ; 24" 2' ' 9 5' ! 4D 2' G< 2 59 A&

' 2400?8 ! =<B<2& 42B' 4 "<'" "9< B<@04 4" 2' ' "9< 2 2' 2' G< ; C< & K KZ& %8Ub\b* = I <A <5<2"<B' C?' "9< 2 5"< ' 4'" <224& :2'" (<=<29 < C : '" 9 5' 4""<2B42@<& 0 ><' "94'" ' 9 5' ! A42 59' 42B' $ ": - : <5<' @ 00<4 - : <5& =45& <D@<A'" 2' 5A<@ 40' @45<5' ' 4 < @@ : <2@<& A : <0?' ; 40)' '" ; 4? C< 4BB<B' "94'" <2 ; 4 >' =45& 45' 4' ; 4"" ; ' ' @ : 5<& <A <5<2"<B' C?' "= ' < ; 5" 5' : 2"5' 9 5" 42' 2"9< ' 42B' 6 4@9 ; ' ' <B< @>E' 42B' "9< 5 G< < -2' $ 2@< ' "9< B9< 042B5' "9< $ 2@< ' 42 - <E C?' 4 ; ' G42' ! A4<2& G42' 5" 2B<2' 42B' 4 2' 425' G 2' 4 -< ; & =9 5< [' 594 < 2' : A<42' A 0 " @5&\' B<"4 0<B' = "9' 5 ' ; : @9' @ ; A04@<2'" 5 2@< "?' C?' 9 ; 5<0 & 94B' C<- : 2' 4 "< ' 45"4"'" = "9' 9 5' ; 55 2' " ' $4 5' 45' <2G ?' ' 400' "9< 4554 : ' 0 2<5)' 9< <A <5<2"4" G<5' ' "40 42' $ =< 5& - G< 2 ; <2"5& 42B' ; : 2 @ A40 " <5' ; 4?' C< A455<B' C?& = "9' "9< <D@<A" 2' ' 4 B 240' @ 0< 2540G & =9 ' B : 2 -' 2<4 0?' 4' N : 4 "< ' 4' @<2" : ?' @ 2B : @"<B& 45' !<@ <"4 ?' ' ! "4"<& "9< B A0 ; 4" @' 4 4 5' ' "9< $4A4@?' "9 : -9' 4' 5< <5' @ " @40' A945<5& 42B' @ 2" G<B' " ' 2 :5< 4' " 2@" : < ' 0 C< 40 5 ; ' ; : @9' <A C4"<B' C?' "9< e ! ' 2" ' 4' 5 2 -0< ' ; 2B<B' B<G " 2' " ' "9< 2"< <5"5' ' "9< 2 4)' "' <224& 2540G ' =45' @94 -<B' C?' $ A< $: 5' ' = "9' "9< 2"< <5"5' ' 9 5' "< ; A 40' 5 G< < -2"? p5' =<00' 45' "9 5< ' "9< 4"9 0 @' 9 : @9' 4'" 04 -<)' 9< ! = 55' <A <5<2"4m " 2' =45' 24" : 400?' 2 : ; < :5& "9< <'" ' "9< 2 <B< 4" 2' 5<2B 2 -' "9 << B<A : " <5& 9<4B<B' C?' "9< ! ! !' 425' G 2' < 294 B& 4' A4" " @

$ $>3WA8 + % ' ' ' ++ ' / ' ' A)

5"4"<5 ; 42' ' 9 -9' 2"<00 -<2@<' 42B' 2 "< 8 " &' 40"_C / 8' 2 '" 40=4?5' 9 0B 2 -' "9<' C4042@<' N: "<' <G<20?' C<"=<<2' AA 5 2 -' @42" 240 2"< <5"5) <4 0?' 400 "9<' @42" 25' 5<2'" 2<' ' ; <' B<A:" <4' 9<' 4@" G<' 42B' 5:@@<55 :0 < "5 (4' 4 A<& =9 ' <A <5<2"<B' <55 2' 42B' = <' < <@" G<0?' > AA "<B' C?' 9 5' @ ; A4" '" <2< 40 6 ; 2) ; 2-' "9<' < ; 42' G< ; 2 <2"5& "9<' C4G4 42' 5<2'" " ' "9<' 2- <55' 0B 4 5940 G 2' % <B<& =9 ' < ; 4 2<B' "9< <' " 00 @400<B' 4=4? 2' A 0 Z& K KU& " ' "4><' A4 '" 2' "9<' ; ; 2<2'" =4) '" <224' 9< ; 4B<' "9<' 2 5'" ' 9 5' ; 0 "4 ?' 04: <05F 9:'" "9<' 2 0:<2@<' 9<' 4@N: <B' "9 :-9' 9 5' 2<- " 4" 2' ' "9<' <4"?' ' <B' @" C<' & K K E 2' "< ; 5' 9 -90?' 4G : 4C0<' " ' " 5" 4' =45' 2 '" 2@ <45<B' C?' 9 5' 4 -42@<)0 9<' % : "< ; C< -' A0<2 A "<2" 4 <5& 2' "9<' "9< ' 942B& 94B' ""0<' ' 2 ' 0 C< "?' ' 4@" 2' 0< '" " ' "9< ; ' C?' "9< ' B<5A " @' ; 45"<) '" =45' 20?' " =4 B5' "9<' <2B' ' "9<' 2- <55' "94'" "9<' / 2-' ' !4D 2?' @ :0B' C< ; 400?' <A <5<2"<B' 4'" "9<' @ 2 < <2@<5' ' "5' < ; 42' ; ; ""<<) 5' 2"< <5"5' 94B' A <G :50?' C< 4 ' =4"@9<B' C?' :2'" ' <B @9' 0C <@9'" G 2' B< ' !@9:0<2C: -& 42B' C?' 9 5' 5:C5<N:<2'" A0<2 A "<2" 4 ?' 0 C -F 42B' 4' @ 25 B< 4C0<' 2 0:<2@<' =45' <D< @ 5<B' 4'" <224' C?' <2< 8' G 2' (42-<24:& =9 & =9<2' 4' !4D 2' @< & 94B' 4@" G<0?' <D< "<B' 9 ; 5<0 ' ' 42' 400 42@<' = "9' :5" 4& 42B' =45 2 =' 2' 9< ' 5< G @<) 9<' <0<@" 4"<' & 45' '" 5 2' C<@4 ; <& > 2-B ; ' ' 42 G< ' =45& 45' 40 <4B?' 5"4"<B& <A <5<2"<B' 4'" <224' C?' :2'" :25"< & = "9' =9 ; ' =45' 455 @ 4"<B' :2'" G 2' 4 B<2 ' & C< -& =9 ' 94B] ' 5<G< 40 ?<4 5' A <G :50?' 00<B' "9<' B @:0'" A 5'" ' 42 G< 42' 2 5"< ' "9< <F "9<?' 94B' "9<' 5< G @<5& 45' 42' <DA< '" 2' A:C0 @' 04=& G+' "9<' BB< ' 4 "<25& ; < 0?' A <55 ' 4'" 0"" 2-<2) 0"9 :-9' :25"< ' 94B& 4'" 45"0< <4-9)5' <N:<5"& B <@"0?' <A <5<2"<B' "9<' " 59' G< 2 ; <2'" 4'" $4 5& 42B' 5" 00' @ 2" 2:<B' " ' A 55<55' "9<' :00' @ 2 B<2@<' '" <' $ 2@<' 8<2 "& 9 4 2 5"< 5' <2"< "4 2<B' 4'] !+ 'B<5 <& 2' =9 @9' %<00 2-" 2' @ 2@: <B& " ' ><<A' "9<' 2"< <5"5' ' <4'" "4 2' N: "<' B 5" 2@'" ;' "9 5<' ' 42 G< F 42B& 45' 4' ; 4"" < ' ' 4@"& "9< 42 G< 42' A 0@?' A A< ' =45' 2' 5<G< 40' <5A<@"5' 4 ' ; ' @ 2-<2 40 " ' " 59' 5"4"<5 ; 4259 A' 'A:C0 @' A 2 2) 9<' / 2@<' 8 " ; 4"<' ! 40C< -E& =9 ' 94B' <@<2"0?' <5 -2<B' 9 5' - G< 2 ; <2'" ' "9<' 4A 0< 2 @' - 42B' B:@9?' ' ' 42> "& =45' <A <5<2"<B' 2' 9 5' <@@0<5 45" @40' @4A ; "?' C?' "9<' ? :2-<' %<55<2C< -' <2 ?E& @4 <2 < 40' ' "9<' 5<<' ' 25"42@<' :2B<' "BC< -& 42B' B :5' " ' ; <' 2' 4@8:2'" ' 9 5' @94 ; A 259 A' ' "9<' -9"5' '@04 ; 5' '[9<' < ; 42' 9: @9)\' 9<' < ; 4 2 2-' < ; 42' ! "4"<5' 400 ; 4B<' 4' A 2'" ' 5<2B 2-' A0<2 A "<2" 4 <5' " ' <224& 2' B<' < "9<' " ' 455< " "9<' 5 G< < -2"?' 5" 00' <"4 0<B' C?' "9<' B?245" <5& & ' A 55 C0<& " ' <@ G<' "9<' "< " 40' @ 2" 0' = 9 @9& 4 "<' "9<' B 55 0:" 2' ' "9<' ! # "9<?' 94B' < :5<B' " ' ; 40]<' G<' " ' "9<' [<2" 40' Bm ; 2 5" 4" 2' ' <@ 2N:< <B' "< " <5\' <8 C0 59 <B' C?' "9<' 00 <B' $ =< 5) 9 5' 4B ; 2 5" 4" 2& A <5 B<B' G<' C?' ! "< 2& 4@@ B 2-0?& 94B' :2B<' "& C<5 B<5' "9<' > 2-B ;' ' !4D 2?& 20?' "9<' I ; <' - 42B B:@9 <5' ' ' 42>m '" 42B' ' < -& 42B' "9<' "< " ?' ' "9<' $ 2@<' ' 5<2C: -) 9<

A ' 7 ' ' ' ' ! ' ' 5$0 . %0

A0< A "<2" 4 <5' ' "9<5<' < ; 42' !"4"<5' 2@0 : B<B' 4 2' G 2' $0<55<2'
<@>0<2C : - !<9=< 2E& =9 5<' A< 5 240 =< -9"' 4"' "9<' 2- <55' 5' B
" ' 94G<' 5 : A455<B' "94"' ' "9<' A <2 A "8" p : <5' ' 5 ; <' ' "9<' < -9"'
$ =< 5& 42B' !<24" ' ! ; B"' < ; <2E& 42' 4@0 : " =0<B-<B' 4 : "9 "?' 2'
N : <5" 25' ' <@ 2 ; ?' 42B' " 4B<)' 00 4BB " 2' " ' "9<5<& 4' 04 -<' 2 : ; C<'
'"9<' < ; 42' $ 2@<5' 42B' : 2"5' ; < 0?' [; ; <B 4"<\'=< <' 2B G B : 400?'
<A <5<2"<B' 4"' "9<' 2- <55& = 9 0<' "9< '@ 00<@" G<' 2"< <5"5' =< <' 2' @94 -<'
' $ G? : 2@ 00 'G 2' 4< "2<)' 9<' : '@ A 4" 25' '"9<' / 2 -9"5'
' "9<' ; A <' "9 5<' ' ! =4C 4& $ 42@ 2 4& "9<' % <"" < 4 : & 42B' "9<' 0< '"
C42>' '"9<' 9 2<E 405 ' <4@9' 5<2"' 4' B<A : "?)

9<' 4C G<' <2 : ; < 4" 2' 5' G< ?' 4 ' ; ' <D94 : 5" 2 -' "9<' 0 5"' '
2"< <5"5' A< 5 2400?' <A <5<2"<B' 4"' <224& = 9 @9' 2@0 : B<B' "9 5<' ' ; < '
5 G< < -25& ' A <"<2B< 5' " ' G4 : 5' "9 2<5' 42B' B -2 " <5& ' 5A ": 40
42B' "< ; A 40 @ A 4" 25& ' @ : 2" <5& B 5" @"5' ": B' " = 25& ' @ ; m
; 55 25& 455 @ 4" 25& 42B' C B <5' ' ; <2' ' ; 42?' B < <2"' 5 "5& 42B' '
A G4"<' 2B G B : 405)' 9<' 4"9 0 @' 9 : @9' ' < ; 42?' =45' <A <5<2"<B&
2 "' 20?' C?' <2 ?' G 2' b%<55<2C< -& C : "' 405 ' C?' "9 <<' 4 5& < 2 @<B'
C?' "=<2"? G<' ; < ; C< 5' \<@B<5 45" @40 42B' 5<@ : 04 5<B' : 2B4" 25F' "9<'
4"9 0 @5' ' ' 42> "' 5<2"' 4' B<A : "4" 2' ' "9< ' =2& 45' B B' "9<' 6<=5'
' ' 42> "& < ; <2& ! " 455C : -& 42B' (C<@>& " : 5" 2 -' A< 94A5' 405 ' " '
"9<' 2 0 : <2@<' <D< @ 5<B' C?' "9<' - <4"' 6<= 59' 242@ < 5' <5"4C0 59<B' 2' "9<'
: 5" 42' @4A "40)' G<2' "9<' 2"< <5"5' ' A : C0 59< 5' 42B' 4 : "9 5' =< <'
< <@" G<0?' 4BG @4"<B& 2' A4 " @ : 04 ' C?' "9<' - <4"' : -5C : -' A : C0 59< ' ""4)

9<' 5"' =<<>' ' @" C<' A455<B' = "9 : "' 42?' 2B @4" 2' ' "9<'
<DA<@"<B' A<2 2-' ' "9<' 2- <55' C<? 2B' <G <= 8' ; 42 <: G <5& C4005&
) #A ; <24B<5' 2' "9<' $ 4"<' 42B' A A : 04 ' <5" G405' 2' "9<' : -4 "<2)'
5 0 8 ; 4""<' ' 4@"& 9 =<G< & "9<' 8"')A0<9 A "<: " 4 <5' ' "9<' ' : ' <4"'
00 <B' $ =< 5' ; <" ; ' ! <A"< ; C<' K ' 2 = 4 B5F' 42B' 2' "9<' 2B' "9<?'
4- <<B' : A 2' "9<' -<2< 40 ; <"9 B' ' A @<8 <' 4"' "9<' 2- <55)' ' @ ; '
)' ; ""<<' @ 25 5" 2-' ' 8 F<5<2"4" G<5' ' "9<& ' : ' $ =< 5&&4AB)' ' $ 42@<'
' 42B' !A4 2& =45' " ' @94 -<' "5<0 ' = "9' "9< A <A4 4" ?' = >' @ 2 <@"-B'
]b= "9 42 ' ; 4""< 5' ' 82< 40 : A<42' 2"< <5"F = 9 0<' "94"' @ 2@< 2 2-'
+' "9<' SA A 5<B' < ; 42 A' <B< 40 @ 5" : " 2' =45' " ' K8' 0< '"' "4' @ ; ; ""<<'
8 i A ' "9<Q' G<' A 2@ A40 < ; 42& ! "4"<5& ! 4D 2?' C< 2 -' ' @ : 5<' <D@0 : B<B)
8 8 <' 2 2 < ; 42' <4"' $ %F< 5 94B& 4"' ! "< 2 5' 25" -4" 2& B<@04 <B' "9B0 '
8 ' 2"<2" 2' " ' 4C5"4 2' ; ' 2"< G<2 2-)' 2' "9<' 54 ; <& B4"<& 9 =<GB.&
"9<' A0<2 A "<2" 4 <5' ' "9<' ' : ' 00 <B' $ =< 5' 5 -2<B' 4' A " @ 0' " ' 9<'
i ' < <<"' "94"' "9<?' 2"<2B<B' " ' 5<""0<' 4 ; 2-' "9< ; 5<0G<5' "9<' B 5" C9" 9' '
] i "9<' $ 0 59& < ; 42& 42B' "40 42' "< " 8' A04@<B' 4'")" 9 < ' B 5A 540 C?'
8 <' $<4@<' ' g4 5F' 42B' "94"0' : 2" 0' "9 5' 94B' C<<2' B 2<& "9<?' = : 0B' 2 '"
@C2 < ' 2' "9 5' 9<4B' = "9' "9@ <A <5<2"4" G<5' ' ' 42@<' p ; B' !A4 2& '
& 0 5"<2' " ' 42?' 0?<<" 25' A : '" =04 B' C?' "9< ;)' 2' "9<' B' 45"0< <4-9'
J' ; 4B<' 4' 5<A4 4"<' B<@04 4" 2& <5< G 2-' " ' 9 ; 5<0 ' "9<' -9"' '@ 2 0 : 2 '
<4" 2-' 4 42-< ; <2"5' 4B A"<B' C?' "9<' ' : ' $ =< 5' " ' "9A 5)

phrase, that the Congress, as such, only came into existence by means of its Final Act; and even this was only the act of the Eight Powers, to which the rest were invited to adhere.

The working organ, then, which had assumed the responsibilities of the general body, was the Committee of the Eight, although on certain occasions the plenipotentiaries of the Five Great Powers took it upon themselves to meet without the rest. But even the Committee of the Eight, which on October 30 unanimously elected Metternich as President and Gentz as Secretary, of the Congress, held only infrequent meetings, especially in the earlier months of the session, its principal task being to formulate and place on record the decisions arrived at by the special Committees appointed by it. The Committee for the settlement of the Germanic Constitution had, as has been seen, been separately constituted from the outset; and its broken course will be most conveniently summarised apart, while the composition of some of the other Committees will be noticed in connexion with their proceedings.

Throughout the earlier period of the Congress, the statesmen assembled there were, in the main, though not as we shall see entirely, engaged on the permanent rearrangement of the political map of Europe. This task, as well as the work of the Congress in general, depended for its successful accomplishment on the removal of certain difficulties which had from the outset obstructed its labours; and among these difficulties, as will speedily appear, two, so closely interwoven with one another as in reality to form a single problem, dominated, and for a brief critical period seemed destined to swallow up, all the rest.

In the matter of the restitutions, compensations, and satisfactions to be arranged, it was of course necessary in the first instance to consider the interests of the Great Allied Powers; the smaller members of the recent Coalition came next. France stood in a position of isolation; though Talleyrand might continue to maintain at Vienna the pretension which he had set up at Paris, and to act as if the legitimate Government of France, having taken part with the Allies in overthrowing the usurper, had a just claim to share in the decision of any proposal as to the territorial reconstruction of Europe. But the question of the French frontier had been settled at Paris, so far as its main issues were concerned; nor could there be any thought of reopening it now. France could not at Vienna seek to obtain more than certain small rectifications of frontier; on the other hand, she ran no present danger of a renewal of the proposal which Austria had brought forward in December, 1813, of restoring Alsace to Germany. As to the other Four Great Powers, nothing seemed simpler to the Emperor Alexander than that Russia should find her compensation in Poland, and Austria and Prussia theirs in Italy and northern Germany. This division implied that, in the Tsar's opinion, Great Britain would find her account, or rather had

K K Z_ + . C& $) ! $! $
St)))))))) QQQQQQQQ Q

40 <4B? :2B "(2 <"4 2 2- ; 5" 9< <@ ; N:<5"5 C<? ; 8 "9< 5<44(" -<"9< = "9 "9< A A "42" A 5 " 25 9<0B 9?9< 2 "9< <B "< 42<42(2 <-4 B " "9<5< 2N:<5"5(59< 94B 4" $4 5 59 =2 4 ; B< 4" 2 =9 B 2 =5" B 9< 2 - B 5"<4B) ' "9< :"@9(4" =9 5<<DA 5<"9< ; 5" @ 25 B< 4C0< 9< <@ 0 2 40 4@N: 5 " 25 94B C<<2 ; 4B<(59< <D< "<B 9< 5<0 " C"4 2 4 @ ; A ; 54" 2 4" 9 ; <F C:" 9< =2 -4 25 ; " 5:C ; ""<B " 9< 4AA G40 "9< 2- <55(=9 @9 59 =<B 2 B 5A 5 " 2 " " : B 9< "<2: < 40"4(" 942B G< "9< 2 42 5042B5 " 42?9 "9< @04 ; 42"5 =9 = :0B 94G< 42" @ A4"<B "9< 5:C5<N:<2" <5"4C0 59m ; <2" 9< A "<@" 4"<) 4A 0< 2J5 @94 4@"< 5" @ < ; 4 >("94" "9< " 59 G< ; ; <2" =45 " C04 ; < 2<-0<@" 2- "5 AA ":2 " <5 <224(" ; 4? C< <A0 <B "94" "9< ; B< 4" 2 59 =2 C? <4" "4 2 <2942@<B 9< 2 0:<2@< 2 <5A<@" "< " 40 5<""0< ; <2"5 2 =9 @9 59< 94B 2 B <@" 2"< <5") :5" 4 4BG42@<B 2 2<=@04 ; 5 <D@<A" 2 "40?) ?"9< <4"?(&(< @9<2C4@9 6:2<(K K E 59< 94B 5<@: <B "9< <@ G< ? 9< B ; 2 25 2 "9< <45"< 2 59 < "9< B 4" @(42B C?"94" <B @" C< (K K E "9< <" @<55 2 ; 5" 9< ; D2< 0 55<5 " 4G4 4 59< 0 ><B 4 5" 00 ; < 4G :4C0< 4B :5" ; <2" 9< @04 ; 5 2 5 :"9< 2 < ; 42?(42B 405 4 ; <B 4" 4-- 42B 5< ; <2" 2 $ 042B) 2 "9< "9< 942B(59< =45 B C <G< "9 5< :5" 42 <"9< 042B5 =9 @9 9:-:" 94B B<5@ C<B 45 4 ; 005" 2< 942- 2- :2B 9< 2<@>(42B 59< @ :0B 2 " <DA<@" 2 "9< 0 2- :2 " <"4 2 "9 5< ! =4C 42 A 55<55 25 =9 @9 94B @<45<B " C< G40:< " "9< :5< 4C5C: -(:" "9< :0< 5) :5" 4 94B ; 0? <5 0G<B 2 A< ; 42<2"0? < <5"4C0 59 2-9< 5=4? =8 49 "9< "40 42 "< " <5 =9 @9 59< 94B < "<B 2 4 0 2-5< <5 B 545" :5 A4@ @4" 25 KYWY K WE(42B 2 <D"<2B 2- "94" 5=4? G< "9< =9 0< (; C4 B? 42B <2<" 4) :55 4 <2"< <B "9< H2- <55 2 4 A 5 " 2 - <4" 5" <2-"9) < <@<2" !:@@<55<5 2 "9< =4 = "9 : ><? 94B A04@<B 9< 2 42 4BG42"4-< :5 A 5 " 2 " =4 B5 :5" 4(=9 5< < -2 A 0@? 94B 04"< ?<4 5 59 =2]=42" B<@5 2 2 "9 5 B <@" 2F =9 0<(2 "9< 2 "9(!=<B<2(5 0 2- >:55 4J5 C ""< <5" <(94B(C? <2 :2@ ; - ' 2042B 2 B< " 8 : <' =4?(C<@ ; < 4 @0 5< 400?) AA ":2 "?(45 " 5<< ; <B(@ :0B 94 < C<<2 ; < A A " :5 "9< 4@@ ; A0 59 ; <2" :55 4J5 B<5 -2 4AA A 4" 2-"9< =9 0<- 42B B:@9? %4 54=(42B "9 :5(C? 4 ; 4"< 40 8BG42@< 9< =<5"< 2 2" < (C<@ ; 2- 4" 045"(45 2< 9<]85"4"<5 ; <2 A9 45<B " 400<? 42B 4" <224(4 : 4A<426- =<) =(40"9 :-9 <G<2 C< < "9< @ 004A5< 4A 0< 2J5 :55 42 <DA<B " 2 0<D42B< 94B C<@ ; < A 55<55<B = "9 "9< B<4 4 <5" 4" 2 $ 042B ; B< :55 42 5:A < ; 4@?(9< @ :0B 2 " <DA<@" "94" :5" 4 = :0B 8G< :A 40 @ 4(45 4" 2< " ; < 59< ; -9" A< 94A5 94G< B 2< 2 B< " C 2-4C :" "9< <5"4C0 59 ; <2" 42 2B<A<2B<2" $ 042B 42B 4C ; < @9<2C4@9 6:2<(K K E9< 94B 4- <<B "94" "9< - 42B B:@9? %4 54=(=9 @9 ; :5" ; "9< 2:@0<:5 "9< 2"<2B<B B<A<2B<2" > 2-B ; (59 :0B

C< B G B<B' 4 ; 2-' "9<' "9 <<' A4 " " 2 2-' $ =< 5)' 5' 4' ; 4""<' ' @ : 5<& 9<' ; <42'" " ' 5<@: <' "9<' 0 2J5' 594 <F' 42B' "9<' N : <5" 2' ' : 55 4J5' $ 0 59' 54" 5 4@" ; ' "9 : 5' @4 ; <' ; "<' 42B' ; <' " ' ": 2' : A 2' "9<' @ ; A<254" 2' " ' C<' 455 -2<B' " ' $: 55 4& 9<' @ : 25<05 ' !"< 2' 42B' 2< 5<24 :' =< <' ; 2-0<B' 2' 0<D42B< J5' ; 2B' = "9' "9<' A ; A" 2-5' ' a4 " ?5> F' 42B& 45' "' C<@4 ; <' A4"<2"' "94"' $: 55 4' = : 0B' 5<<>' 9<' ' @ ; A<254" 2' 2' !4D 2?& 8 "9 5' / 40 5@9' @ ; A4@"' 04?' 0 >' <' 42' 2@ : C : 5' : A 2' "9<' B<0 C< 4" 25' ' "9<' 2- <55& =9 ; f' "9<' : 55 $"B 59' 42B' $: 55 !4D 2' N : <5" 25' =< <' 5 2' i' 2<D" @4C0?' 2"< 04@<B)

Í 9<' A 5 " 2' ' $: 55 4' 9< 5<0' 4'" "9<' 2- <55' =45' C<5<'" C?' ; 42?' A<@ : 0 4 ' B @ : 0" <5)' 2' B<' "94"' 59<' 59 : 0B' 5<@: <' 2' "9<' : ": <' "9<' A 5 "@ ' 45' 4' <4'" $ =<' =9 @9' 59<' 94B' 5 ' 4A B0?' <4@9<B' 42B' 5 ' A <@ A "4"<0?' < "<B& "' =45' 2 '" < 2 8' ' "9<' $: 55 42' ; 24 @9?' " ' C<' <5" <B' " ' 4' "< " 40' B ; 2 2' <N : 400 2-' "94'" A 55<55<B' C?' "' C< <' "9<' @4"45" A9<' ' K)' < G< & 2' "9<' B 5" C : " 2' ' "9<' < ; 42' "< " ?' <@ G< <B' ; ' $ 8@<' ' "4><2' G< ' ; ' 9<' 400 <5& $: 55 4' =45' ; " "0<B' " ' 4' <@ 8 " 2' ' "9<' 0<4B 2-' A4 '" B <' 94B' A04?<B' 2' "9<' 0 C< 4" 2' ' < ; 42?)' 9<' 28 " 8 25' 2' "9 5' 9<4B' =< <' @ ; A0 @4"<B' C?' ; 42?' @ 25 B< 4" 25)' ' - <4'" B @ : 0"?' 4""<2B<B' "9<' " 425 < ' " ' $: 55 4' ' 4' 5" <"@9' ' "< " ?' 2' "9<' 0< '" C42>' ' "9<' 9 2<& = "9' @ 25 B< 4C0<' 4@@<55 25' 2' %<5"A940 4' 42B' 2' "9<' -9'" C42>' ' "9<' G< & 2@0 : B 2-' "9<' - 42B B : @9?' ' < -' 42B' 5 ; <' ' "9<' < ; 42' B ; 2 ; 5' ' "9<' : 5<' ' 4554 :)' 2' "9<' "9< ' 942B& $: 55 4' @ : 0B' 2 '" 9 A<' " ' <@ G< ' 9<' 9 0B' 2' 42?' A4 '" ' "9<' <0<@" 4"<' ' 42 G< & " =4 B5' =9 @9' 59<' 94B' A G<B' 5 ' G ; > 2B' 4' 2< -9C : ' ; ' "9<' $<4@<' ' 45<0 KYWUE' 2=4 B' " ' "9<' 5<@ 2B' ' <2@9' @@ : A4" 2' ' "9<' <0<@" 4"<' 4 "<' ' 6<24' K E)' 9<' B4 ; 5' ' 42 G< & 4 "<' ' "5' ; 42?' " C : 04" 25& =< <' : "9<' ' @ ; ; <2B<B' C?' "5' B?245" @' @ 22<D 2' = "9' <4'" "4 2)' $: 55 4' @ : 0B' 2 '" <DA<@'" 5 : @@<55 : 00?' " ' <5 5'" "9<' 42 G< 42' @04 ; ' ' "9<' <5" 4" 2' ' 45'" ' 5 4& = 9 @9' ; A0 <B' "9<' 0 55' " ' 9<' ' 42' ; A "42"' @ 45" 0 2<F' 42B' 59<' @ : 0B' 2 '" <G<2' @4 ?' 4 B<2C< -J5' ; B<5'" A042' ' 4' "" 2-<2' [5"9 ; : 5&\' " ' @ 22<@'" "9<' =<5"< 2' 42B' <45"< 2' ; <" <5' ' 9<' B ; 2 25)' 2' 0 <:' ' "9<' 0 5'" "9' !<4' A G 2@<& 59<' @ 2" G<B& C?' ; <425' ' 4' @ ; A0 @4"<B' 5< <5' ' " 4254@" 25& " ' 4BB' ! =<B 59' $; < 42 4' @ . ! ' " ' 9<' A 55<55 25' 2' "9<' 40" @' @ 45"' "' "9<' 54 ; <' " ; <& 59<' 94B' " ' 2<- " 4"<' = "9' 4' 2 : ; C<' ' < ; 42' !"4"<5 45' " ' @<55 25& @ ; A<254" 25& 42B' <D@942-<5' 2<@<55 "4"<B' C?' 9<' ' <N : <m ; <2"5' ' ; A 5<B' 2' 9<' C?' @ 25 B< 4" 25' ' 400 > 2B5)

2' "9<' 5 : "9& 4G4 4' < ; 4 2<B' 2' A 55<55 2' ' "9<' ' 42@ 2 42' B : @9 <5' ; < 0?' =2<B' C?' "9<' : 5<' ' 42B<2C : -)' : '" 59<' =45' 2' 5<4 @9' ' : "9<' @ ; A<254" 2' "942' 59<' 94B' 40 <4B?' 5<@ : <B' ' 9<' ' <m " @<55 25' " ' : 5" 4F' 42B' !"< 2' 42B' "9 5<' = 9 ' "9 : -9'" = "9' 9 ; ' =< <' 2' "9<' 40< '" " ' 42" @ A4"<' 4G4 42' 4""< ; A"5' " ' 4AA A 4"<' 4 2 & "9<' ><?' ' < ; 42?J5 =<5"< 2' 2" <)' 9<' 4@'" "94'" "9<' 4 <4' ' 4' <@ 2m 5" : @"<B' $: 55 4' =45' "9 : 5' A 4@" @400?' 0 ; "<B' " ' 2 "9< 2' < ; 42?' =9<""<B

K KZ_ ' 8 ' & ! + UW

"9< B<5 < ' 9< ' 5"4"<8<2' " ' 422<D' !4D92?)' 094 "' "9< >0 -BR22' '
' <B< @>' : - : 5": 5' '=45C "9'"<@92 @400?&42B'45'4' ; 4""< ' ' 4@"&<2" <0?'
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2 '" 2' 94G 2-' 5 : AA "<B' 4A 0< 2&C : '" 2' 94G 2-' 4B9< <B' " ' ; ' " '
0 2-)' 5' > 2-B ; ' 94B' C<<2' @ 2N : < <B' 42B' 9< =45' 9 " 5B ' 2' 4@'" 4'
A 5 2< ' '=4)' : '" 9 5' <40' B42-< '04?' 2' "9< A40A4C0< -4 2' = 9 B ' "9<
422<D4" 2' ' 9 5' > 2-B ; ' = : 0B' C 2-' " ' $: 55 4' ; ' <G< ?' A 2'" '
G <= 3 <@ 2 ; @40& 2 0 "4 ?&42B' AA0 " @B F' 42B' 2' "9< : "9< ' 4@"&"94'"
"9<' " 4B " 25' '$: 55 4)5' 5<' " ' "9<' A 5 " 2' '4' <4'" $ =< '@ 2@ B<B'
= "9' 45A 4" 25' 45' " ' "9<' : ": <' 4=4 " 2-' / ' 2' 2 "9< 2' < ; 42?)
4B' '" C<<2' 0< '" " ' "9<' ' : ' 00 <B' $ =< 5' " ' 5<""0<' "9<' $ 0 59 !4D 2'
B @ : 0"?' 4 ; ; H-' "9< ; 5<0G<5&" 0 8 ' ; -9'" G< ?' A C4C0?' 94G<' 5 : G<B' 4'" 42'
<4 0?' 4- << ; <2")' '" "9<' : "5<'" ' "9<' 2- <55& : 5" 4& < ; < ; C< 2-'
=94'" ; A "42'" 2"< <5"5' ' 9< ' 2' =< <' 4'" 5"4><& ; 4B< 2 ' 5 -2' '
C< 2-' A <A4 <B' " ' @4 ?' : '" <"" < " @9)5 <4 0 < ' "9 <4": ' "94'" 59< = : 0B'
A< 59' 4"98' "942' 400 =' "9<' <5"4C0 59 ; <2'" ' 4' : 55 42' $ 042B)' 9<
5<@ <'" @ <5A 2B<2@<' @4 <B' 2' C?' 45"0< <48' = "9' "9<' 54 ' 2' "9<'
<4 0?' A4 '" ' @" C< ' 59 =5' "94'" "9<' ; < ' 94B' 40 <4B?' 4C42B 2<B' 42?'
4""< ; A'" 4'" @4 ? 2-' : '" 9<' 5'" B<4' ' "9<' " 8' G< 2 ; <2" 3 "94'"
' < <5"4C0 59 2-' $ 0 59' 2B<A<2B<2@< 3 42B' ; < <0?' 25 5"<B' 2' 4' A4 " " 2'
' "9<' - 42B B : @9?' '%4 54=' = 9 "9' : 0B' 0<4G<' " ' : 5" 4' 42B' $: 55 4'
"9< ' ; 0 "4 ?' 2" < 5)' 9 : 5' "9< < 5<< ; <B' <G< ?' A 5A<@'" "94'" "9 5' A4 '"]
"9<' A C0< ; ' = : 0B' <5 0G< "5<0 ' 2" ' 4' N : <5" 2' ' C : 2B4 <5& 45' " '
=9 @9' 0<D42B " ' 4AA<4 <B' N : "<' A <A4 <B' " ' 0 5"<2' " ' <45 2)
-4 2& 2' "9< <4 0 <5'" =<<>5' ' "9<' 2- <55' '" 5<< ; <B' 45' ' "9<'
4C5 A" 2' ' !4D 2?' 2' "9<' $: 55 42' ; 24 @9?' = : 0B' C<' 4@@ ; A0 59<B'
= "9 : '" 5< : 5' 9 2@ 42@<)' 9<' + ! ' ' "9<' : 0<' ' / 2-' ' <B< @>'
: - : 5": 5' 42B' 9 5' B?245"?' 94B' 2 '" 2B<<B' 45' ?<'" C<<2' A ; : 2@<B F' C : '"
2' "= ' ; < ; 42B4' 4BB <55<B' " ' "9<' : 55 42' 42B' $: 55 42' 5 G< < -25' C?'
6 9 2@<' <A2 2&"9<' G< 2 ' ' !4D 2?&"9<' A A 5<B' 422<D4" 2' =45'
" <4"<B' 45' 4' 5<""0<B' 4 4)' < <' "4> 2-' "9<' A <0 ; 24 ?' 5"<A' ' " 425m
< 2-' "9<' 4B ; 2 5" 4" 2' ' "9<' > 2-B ; ' " ' $: 55 4&'" =45' "9 : -9'"
B<5 40B<' " ' C"4 2' "9<' @ 2@ : <2@<' ' <4'" "4 2' 42B' : 5" 4)' C4'"
' "9<' ; < ' $ =< ' =45' <4B 0?' 5 -2 <B' C?' 45"0< 4-9' @" C< ' KKE&
=9 ' 2 ; <B' 4 B<2C< -' "94'" <4'" "4 2' =45' A <A4 <B' " ' 4@N : <5@<'
2' "9<' 2@ A 4" 2' ' ; <' =9 0<' ' !4D 2?' 2' "9<' $: 55 5 ; ' ; 24 @9?&
A G B<B' " ; '" '" =45' 2 '" 2"<2B<B' "9 ; <C?' " ' 2B< ; 2 ?' 9< ' ' 54@ @<5'
=9 @9' = : 0B' ; 4><' 9< ' B<A<2B<2'" : A 2' : 55 4)' <"" < ; @9' -4G< 2 '
455<2"&C : '" ; A0 <B' @" C8' E6 ' "94'" "9 5' ; -9'" C<' "9@ ; 2-&42B'
"94'" <G<2' " ' 4' A< ; 42<2'" 422<D4" 2' ' !4D 2?' : 5" 4' ; -9"& ; B< '
@< "4 2' @ 2B " 25&C<' : 2B' = 00 2-' " ' 4- <<)' 9 : 5' 2 ' 4 - : ; <2"5' < "9< '
' A 2@ A0<' ' ' A 0 @?' 5<< ; <B' 0 >< 0?' " ' A <G4 0' 2' 4G : ' ' "9<' : 2m
" : 24"<' / 2-' ' <B< @>' : - : 5": 5)' 2' G< ; C< ' ' $ 2@<' <A2 2'
942B<B' G< ' "9<' 5 : A < ; < 4B ; 2 5" 4" 2' ' !4D 2?' " ' "9<' $: 55 425g'
A @04 ; 2-' 2' 9 5' =2' 4 : "9 "?E "9<' / 2-' ' $: 55 4' 45' "9<' : ": <

' ' ' ' ' '%

5 G< < -2' ' !4D 2? ' 42B' 0<D42B< ' A 2 5<B' 9 5' 5 : AA '" " ' !"< 2!5
A A 540&"94'" $ 2@< % 00 4 ; ' ' $: 55 4' 59 : 0B' C< 5<2'" " ' <5B<2' 45
G< 2 ' ' !4D 2?)' "' =45' 2 '" 20?' ' <B< @>' % 00 4 ; !5' 24": 40
<A : -242@<' " ' : 2-<2< : 5' 945"<' =9 @9' <2B< <B' "9 5' A A 540' 4C " G<'
4' 2<=' <0< ; <2'" 94B' C<<2' 2" B : @<B' 2" ' "9< 5 " : 4" 2)
9 5' =45' 9 < 2 0 : <2@<' ' ' 42@<)' ' 5 2< ' 94B' 400<? 42B' ; 4B<'
& 9 5' =4?' 2" ' "0 <' : A< ; ' ; 2 ""<<& " 42& 45' <A <5<2"<B' C?' 9 ; & "9<'
' 42@<' ' (: 5' X ' 2@<' ; <' C842' " ' A 5<' C< <' "9<' 5 ; 400< '
!"4"<5' ' : A<& 42B' " 0 5<' ' < ; 42?' 2' A8 @ : 04 & 45' "9<' 24": 40
A "<@" <55' ' "980 ' 2"< <5"5)' "' = : 0B' 2' 42?' @45<' 94G<' C<<2' 2' "9<'
8404 ' B< ' ' "9 2-5' " 4'" ' 42@<' 59 : 0B' <5A : 5<' "9<' @4 : 5<' ' "9<'
/ 2-' ' !4D 2?& =9 5<' : 5<& "9 : -9' 9<' 94B' 04"B?' C<<2' "9<' 4 "9 : 0
400?' ' 4A 082& 94B' ' 0B' C<<2' 5 ' @0 5<0?' @ 22<@"<B' = "9' "9<'
: C 25)' : '" 9 5' @ : 5<' =45' 405 ' "9<' @4 : 5<' ' 0<- " ; 4@?& ' =9 5<'
-9"5& =9 @9' @ 2N : <5'" @ : 0B' 2 '" 2G40 B4"<' 42B' 2 ' A : 2 " G<' A @<55'
@ 0B' <D" 2- : 59& "9<' 5'" A0<2 A "<2" 4 ?' ' : C 2' ' 42@<' 2 =' 5" B'
"9' 45' "9<' @ 25 5"<2'" @94 ; A ;)' / 2-' ' <B< @>' : - : 5" : 5!' A G?' A : 5<'
4@@ : 2"5' <04" 2-' " ' "9 4' @ " @8' A< B' =< < 4 "< =4 B5' : B @ : 50?'
B<5" ?<B'' C : '" 400<? 42B' 2<<B<B' 2 ' 2@<2" G<' " ' 5" ' : A' 4' @ 2 0 @'"
=9 @9' ; -9'" 94G<' <5 0"5' 4BG42"4-< : 5' " ' ' 42@<)
!' "' 5'" 9 5' ; 42 <: G <5' 94B' 2 ' < <@'" C : '" "94'" ' ; A<00 2-' !"< 2&
"9<' <40' 4 : "9 ' ' "9<' 422<D4" 2' A <@"& " ' A : 5 : <' "' = "9' 2@ <45<B'
B<"< ; 24" 2'' 42B' 0<D42B< ' A A 5<B' "9<' < ; G40' ' "9<' / 2-' '
!4D 2?' 2' 9 5' ' 4'" ' <B @95 <0B<' " ' "9<' 54 < B 5"42@<'
' -4)' : '" "' 5 2' C<@4 ; < 4AA4 <2'" "94'" 2<' ' "9 5<' G<9< ; <2'"
: "C : 5"5' ' A A : 04 ' 5<2" ; <2'" 94B' C<<2' <G ><B& = "9' =9 @9& 9 =<G< '
; D<B' "9< ' - 2& '" 5' 40=4?5 2<@<554 ?' " ' <@> 2)' 2' G< ; C< ' Z'
"9<' / 2-' ' !4D 2?' 55 : <B& ; ' ' <B @95 <0B<& 4' ; 40' A "<5'" 4-4 25'"
"9<' $: 55 4 '" @@ : A4" 2' ' 9 5' > 2-B ; & 2' =9 @9' 9<' B<@04 <B' "94'"
2<G< ' 42B' ; B< ' 2 ' @ 2B " 25' = : 0B' 9<' @ 25<2'" < "9< ' " ' <2 : 2@<' "9<'
B ; 2 25' 29< "<B' C?' 9 ; ' " ' 4@@<A'" 42' <N : G40<2'" 2' "9< ' 5"<4B)'
2' !58 2?' "5<0 & 4' <=' ' "9<' 2 C 0 "?' 42B' 9 -9< ' @ 405' 94B' 5 '
4 ' 5 : AA "<B' " <' "< ; A 4 ?' 4B ; 2 5" 4" 2'' 42B' "9< <' =45' 4' 5 ; 400'
A : 55 42' 4@" 2' 4 ; " -' "9<' = <00 " B ' ; < ; C< 5' ' "9<' 9 -9< ' ; BB0<'
@0455)' : '" 4 ; 2-' "9<' !4D 2' A A : 04" 2' 4'" 04 -<& 2 "= "95"42B 2-' "9<'
; 42?' " C : 04" 25' "9 : -9' = 2@9' '" 94B' A455<B' : 2B< ' "9<' : 5<' '
%<"" 2& "9< <' =45' 5" 00' ; : @9' 0 ?40' 4""4@9 ; <2'" " ' "9<' B?245"?' 42B' 2 '
B<5 <' =94"<G< ' ' 422<D4" 2' " ' $: 55 4& = 9 0<' "9<' C : 0>' ' "9<' 2 C 0 "?'
42B' ' "9<' @ 405' =< <' C ""< 0?' 42" $: 55 42)' / <' 5? ; A4"9 <5' ' "9<'
< ; 42' G< 2 ; <2"5' =9 @9' 94B' <5@4A<B' "9<' 4"<' ' ! 4D 2?8"9@'
4G4 42' 2' A4 " @"B4 3 =< <' 455 : <B' " ' 9< ' ; ' "9<' : "5<"!' B&
4 ; 2-' "9<' !4D 2' $ 2@<5' ' "9<' 2<5" 2<' 0 2<' = 9 ' 400 <B' : 2B' "9<'
9<4B' ' "9<' 0C< " 2<& <G ; ' / 4 0' : - : 5'" ' %< ; 4 ' 4'" 5'" : A 4" B' "9<'
@04 ; 5' ' 9 5' : 2 " : 24"<' > 25 ; 42' 4-4 25'" "9<' 2"< <5"5' ' 9 5' $: 55 42'
400?)' % "9' "9<' 4 B' ' 4' <' <DA<2B " : <' ' ; 2<?& <G< ?' <D< " 2' =45

:5<B' " ' 2 0:<2@< A:C0 @' A 2 2' 2' !4D 2?((2' <22 1 2?((42B' <05<=9< <)' <G "<B' @ 40 5 ;' :2B' 4' ; :CA <@<' 2' / @ 05@9 ""< F' 9 5" @' 2m B -24" 2' 2' !4 D: :5F' 4G4 42' <2G?' 2' <" 2)' 2' "9<' "9< ' 5 B< 42' 4 " 00< ?' ' - <4"' - :25' 42B' ! ; 400 3 <C:9 (-9 2(2B"((A') ; 422((/ 4 ' 0< 3 B 5@94 -<B' "5<0 ' 2' 5:AA '" ' "9<' $:55 42' A 0 @?F =9 0< <5' 2' "9<' ! ' B<2 :2@<B' "9<' 2 "< < < ' ' 42@<' 2' 42' <55<2" 400?' < ; 42' N:<5" 2)' 2' !4D 2?' "9<' <<0 2-' ' 404 ;' 42B' 2B -24" 2' 5 2' C<@4 ;' 2"<25<((42B' @ ; ; :2 @4"<B' "5<0 ' " ' "9<' !4D 2' " A5' 5< G 2-' 2' "9<' 9 2<042B5)' 9<5<' ; 42 <5"4" 25' 5 2' C<-42' " ' <D< @ 5<' 42' < <@"' :A 2' A:C0 @' A 2 2' C "9' 2' ' 42@<' 42B' 2' 2-042BF' 5" 2-' : 240 5" @' @ ; ; <2"5' ; 4B<' "9< ' 4AA<4 42@<F' 2 5" ; ' =< ' A <55<B' 2' "9<' 5:C <@"' 2' "9<' " ' $4 0 4 ; <2"F' "9<' $ 2@<' <-<2"' =45' >2 =2' " ' C<' A< 5 2400?' 42D :5' " ' 5< G<' "9<' 2"< <5"5' ' / 2-' ' <B< @>' :-:5":5)' ! ' 4 (9 =<G< (45' @42' C<' B 5@ G< <B(45"0< <4-9C' @942-<' ' 4"'" ":B<' 2' "9<' !4X 2' N:<5" 2' =45' B:<' " ' "9<' 4 0:<' ' 9 5' <2B<4G :5(=9 @9' 94B' 4"' 2<' " ; <' 5<< ; <B' A ; 5 2-(' " ' ; <B 4"<' 2' 8:B' " ' 9<' $ 0 59' C 42@9' ' "9<' A C0< ;)

%9<2' 45"0 ; <4-9' 4- <<B' " ' "9<' " 425 < ' ' "9<' !4D 2' 4B ; 2 5" 4m " 2' " ' $:55 42' 9 8B5(9<' 2"<2B<B' 45' 9<' 4 "<0 4 B5' <DA04 2<B' " ' %<00 2-" 2E C?' 54" 5 ? 2-' $:55 4' " ' :2 "<' 9< ' = "9' :5" 4' 2' ; B< 4" 2-' :55 42' B< ; 42B5' 2' $ 042B)' 9<' " 59' ; <B 4" 2(=9 @9' @ 2" 2:<B' B: 2-' 400' "9<' 04""< ' A4 '" ' @" C<' 42B' 4' 2" ' G< ; C< (=45' B<5 -2<B' " ' 2B:@<' "9<' 54 (25"<4B' ' 400 2-' C4@>' :A 2' 9 5' @9< 59<B' 5@9< ; <' ' ! ' 4' > 2-B ;' ' $ 042B' :2B<' :55 42' 5:A < ; 4@?((" ' @ 25<2"' " ' 4' A4 " " 2' ' "9<' - 42B B:"9?' ' %4 54=(=9 @9' = :0B' 0<4G<' C "9' :5" 4' 42B' $:55 4' 2' A 55<55 2' ' 4' 2" ; ' 4NB' ' 2" < ' " <55<5(2<@<554 ?' " ' " ' 5<@: "?' 42B' " ' "94"' ' < ; 42?' 45' "9<' @<2" 40 $ =<' ' : A<)' 9<' 5:@@<55' ' "9 5' 5@9< ; <' =45' "9=4 "<B' C?' 0<D42B< J5' A 2 :2@<B' B 50 >' ' <"'"< 2 @9(42B' C?' "9<' B 5<' 4""4@9m ; <2"' C<"=<<2' "9<' :55 42' 42B' "9<' $:55 42' 5 G< < -25)' ' =45' 45"0< <4-9' A 55<55<B' ' "9<' "4@"' 2<<B<B' 2' @ @:; 5"42@<5 5' <D@<A" 240)' 2' <A0?' " ' 9 5' ; < ; 42B:;' ' @" C<' ! (" <' 54 (2' @" C<'] S# 25 5"<B' 2' "9<' <N: "?' ' "9<' :55 42' <N: < ; <2"5(=9 @9' = "9' 4' 2" < m 0 2<' :22 2-' ;' 9 ; ;' " ' 4@ =' ; B' 2B:B 2-' C "9' " <55<5(4 ; :2"<B' " ' 2<4 0? "9 << N:4 "< 5' ' "9<' - 42B B:@9?' <@> 2<B' C?' A A:04" 2E 42B' "= "9 B5' ' "5' <G<2:<5)' K 9<' 5" : - -0<' 2 =' C<@4 ; <' ; <' 4@:"<)' 4 0?' 2' G< ; C< ' <""< 2 @9' ; 4B<' 42' 4""< ; A'" " ' 2B:@<' $:55 42' B A0 ; 4@?' " ' ; "<' = "9' 9 ; ' 4'" @B0 <G<2"5' 2' A <55 2-' :A 2' :55 4' "9<' " < "98 5":04)' :" 2' "9<' "9' ' "9<' ; 2"9' 42' <2B' =45' A:" " ' 45" < <58J5' 70<B 4" 2(42B' " ' "9<' <2B<4G : ' " ' @ 2 2' " :55 4' = "9' :2 "<B' 4@" ;) 2' "9<' A4 '" ' "9<' 9 <<' $ =< 5(2' 42' 2"< G <=' = "9' ' <B< @>' %77A::'2 42B' 4 B<2C< -(0<D42B< ' <G<40<B(' A A 5<B' " ' <G<40' " ' "9 ; 2 ;' ; ' ' @ 2@<55 25' 2' $ 042B(=9 @9' 9<' B<B 4 8' " ' 94G<' C<; ' ; 4+')"A' 992' C?' <""< 2 @9(2' @ 2B " 2' "94"' 9<' = :0B' 2' <": 2' @ N85 !<) !9" C<<A 2-' $:55 4' :" ' !4D 2?)' <B< @>

William thereupon indignantly bade Hardenberg cease from any further negotiations with the Austrian and British plenipotentiaries.

Metternich lost no time in denying the charge; nor is there any evidence that it was he who had in this instance swerved from the truth. But the Tsar was now virtually certain of his ally, and in consequence more determined to persist in his demands. In this spirit he sent a final note to Castlereagh (November 21). For a time, indeed, Hardenberg behaved as if the task of inducing Alexander to concede more satisfactory terms had passed from Castlereagh to himself. On November 27 he obtained from the Tsar a declaration expressing his willingness to consent to the two fortified cities of Cracow and Thorn, with a certain district around each, being declared independent and neutral. But this concession was to be conditional on the annexation of the whole of Saxony to Prussia, and on the garrison of Mainz, whose future had become a burning question between the German Powers, being furnished conjointly by Prussia and Austria. Hardenberg passed on these proposals to Metternich on December 2, adding a suggestion that King Frederick Augustus should be compensated with a desirable little territory in Catholic Westphalia, and pathetically entreating the Austrian statesman to save Prussia from her present position. He was well aware that the design of incorporating Saxony in the Prussian monarchy was in the most serious danger. Metternich's answer (December 10), while making direct reference to the opposition offered by France to the annexation of the whole of Saxony, suggested that Prussia should annex a small portion of it, without coming into contact with the Austrian frontier; as to Poland, he declared himself ready to fall in with the last Russian proposals, provided, however, that Thorn and Cracow passed to Prussia and Austria respectively. The only result of this note was to draw the Kalisch allies still more closely together; and when Metternich, who at this point seems to have overreached himself, sought to sow discord between them by further manœuvres, the Tsar declined any further personal transaction with him, and requested Hardenberg to draw up a final memorandum as the basis of direct discussion with the Emperor Francis. This memorandum (dated December 15) argued strenuously against the dismemberment of Saxony, and proposed that, since no other satisfaction but the whole of that kingdom could be found for Prussia, King Frederick Augustus should be compensated for the loss of it by territories, with a population of nearly 700,000, on the left bank of the Rhine.

While this unedifying wrangle was in progress at Vienna, the news arrived that Grand Duke Constantine, who had been sent to Warsaw to organise a Polish army, had on December 14 issued a proclamation calling upon the Poles to unite for the defence of their common country and for the preservation of their political independence. This manifesto not being disavowed by the Tsar, he was judged to have taken this final

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' =94"<G<' 5A<@:04" 25' 42B' 9 A<5' "9 5' 5<@ <"' " <4"?' ; -9"' - G<' 5<& 42B' 9 =<G<' C 00 42"' 4' B A0 ; 4" @' 5" >' "5' @ 2@0:5 2' ; -9"' 5<< ;' 2' "9<' A4 "' ' 400<? 42B& 2 2<' ' "9<' $ =< 5' "94"' =< <' A4 " <5' " ' "' @ :0B' 2' < 0<D 2' 4 0 " ' A< @< G<' "5' A <@ A "42@?)' "' $4 5' "9<' 2 5" ?' ' %4 ' @ :0B' 2 "' :2B< "4><' " ' A04@<' ; <' "942' 940 ' "9<' A ; 58' ' <2@9' @<' 2' "9<' <0B' = "9 2' 5 D' =<<>5)' :5" 4' =45 ; = 00 2-' " ' = "9B 4=' " A5' ; ' "40?& =9< <' : 4"' 2<<B<B' @4 < :0 =4"@9 2-)' : A<' 2' -<2< 40 =45' <D94:5"<B' 2' ; <2' 42B' ; 2<?F "9<' " 59' $4 0 4 ; <2"' @ :0B' 2 "' C<' B<A<2B<B' :A 2' ' 42' <2B0<55' 0 =' ' 5:C5 B <5F 42B' 4' : A<42' =4 ' @ :0B' 2 "' C<' =4-<B' C?' ; <425' ' :2B< "4> 2-5' 2' A4A<)' 2B& ' =4 ' 4@": 400?' C >' :"& 2 "9 2-' 94B' C<<2' B 2<' " ' A <G<2"' "9<' ; A< ' 2' 0C4' ; ' 94G 2-' 4' 942B' 2' ")

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4 42-< ; <2"5 =< < 4AA G<B C?"9< ; ; ""<< "9< ' G< $ =< 5 42B 5 4 45"9<?" =< < @ 2@< 2<B "9< $ 059 !4D 2 B @:0"? =45 4" 42 <2B 9< 45A 4" 25 0<D42B< 42B "9< 9 A<5 @9< 59<B C? 9 5 $ 059 @ :25<00 =< < @: "4 0<B 42B "9< "9 << $ =< 5C<"=<<2 =9 ; $ 84:B = "9 "9< <D@<A" 8 "9< 4- ; <2" @400<B "9< <A:C0 @ 4@ =C<B C<<2 45 " =< < 2@< ; < A4 " " 2<B =< < 0< " " B<40 <4@9 2 "5 =2 4@@ :2" = "9 "9< 24" 240 @04 ; 5 "5 $ 059 5:C <@"5) 2 "9< "9< 942B "9< / 2- !4D 2? =9 94B 5 5" <2: :50? <D< "<B 9 58 4-4 25" "9< 408 A" 2 "9< =9 0< 9 5 > 2-B ; C? $:55 4 5" 00 94B " C< A< 5:4B<B " 4@@<A" "9< @ ; A ; 5< C? =9 @9 9< =45 0< " 2 A 55<55 2 4 A4 " "). 2 B< " 2-9 ; "9 5 A: A 5< = "9 2 <45 * <4@9 "9< 4- <55 9< =45 2G "<B " "4>< :A 9 5 <5 B<2@< 4" $ <55C: -=9< <9d4 G<B 2 4 @9 Z K KU) < <* 4 <= B4?5 4 "< =4 B5 9< =45 =4 "<B 2 C? 4 B<A:"4" 2 ; "9< ; m ; ""<< "9< ' G< $ =< 5 @ 25 5" 2- <""< ; @9 400<? 42B 42B %<00 2-" 2 45"0< <4-95 5:@@<55) 9< / 2- < :5<B " 4@@<A" "9< @ 2B " 25 < <B 42B A A 5<B " A<2 4 2<- " 4" 2 = "9 " < ; 2 9 5 =2 4@@ :2" :2B< "9< ; <B 4" 2 :5" 4) 9< B<A:"4" @ ; 94G 2- <": 2<B " <224 "9< ; ; ""<< 2 _i @9 V I <" "<B C? < ; A =< 2- "9< $:55 42 G< 2 ; <2" " ">< ; ; <B 4"< A< ; 42<2" A 55<55 2 "9< A4 " !4D 2? 455 -2<B " "= 9 0< @ 2" 2: 2- A G 5 2400? " @@:A? "9< < ; 4 2B<) 2 "9< :5< ; ; 25 2 4 @9 ! 45"0< <4-9 <5 0:"<0? :A9<0B "9< 4- << ; <2" "9< $ =< 5F 42B 2 A 0 / 2- S' <B< @> :-:5":5 4" 045" -4G< 4 A <0 ; 24 ? 455<2" " "9< @<54 2 ; A 5<B :A 2 9 ;) :" "=45 2 " " 00 4? K "94" !4D 2? 5 -2<B "9< B< 2 " G< " <4"?)

9 5 B<04? 4A4 "= "9< <4@" 2 =9 @9 94B <25:<B :A 2 "9< @ 5 5 2" =9 @9 <40 :5? 5:5A @ 2 42B B<5 -2 94B A <@ A "4"<B "9< <4" $ =< 5 94B <5:0"<B 2 42 4 ; @4C0< 5<""0< ; <2" C< < "9< " B 2-5 4A 0< 2 5 <": 2 =4 2<B "9< 28 <55 " 945"<2 "5 B<0 C< 4" 25) :" 2 "9< B <@" 25 " 2 " 4 0 ""0< 94B C<<2 4@@ ; A0 59<B C? "9< <4"0? A4 " ' <C :4 ?K KU" @ ; B "9< ' 240 <@04 4" 2 B 4 "<B 4C :" "9 5 " ; < C? <2"a A C4C0? 4" "9< 25" -4" 2 "9< " 59 G< 2 ; <2" =45 2 " =9 00? :2=4 42"<B 2 "5) 2< 5<0 54" 5 4@" 2)

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found an echo in both Houses of the British Parliament. But the good fortune of the House of Savoy prevailed; and the fate of the proud and wealthy city was sealed.

The Swiss question, complicated in itself and envenomed by ancient antipathies and jealousies, as well as by mischievous foreign intrigue, was likewise carried to a conclusion within the earlier period of the Congress, though nothing short of the apprehensions of immediate war excited by Napoleon's return could have brought it to so speedy an issue. After the overthrow of the "Mediator of Switzerland", her future had depended upon the preservation of her neutrality, and upon her adherence in principle to the provisions of the Act of Mediation (1803), which had united an augmented number of cantons under a real though far from stringent Federal Constitution. But although, under the influence of La Harpe, Alexander was prepared to respect Swiss neutrality, Austria insisted on her troops entering the territory of the Confederation; and Bern, instigated by the same Power, summoned Vaud and Aargau to acknowledge their relation of dependence towards herself. Fortunately, Zurich was at the time the directing canton (*Vorort*); and the *Landammann*, Hans von Reinhard, was a statesman who combined patriotic feeling with diplomatic sagacity. The extraordinary Diet (*Tagsatzung*) summoned by him at Zurich, where it sat from December 1813 to August 1815, began by declaring the Act of Mediation abolished; but on the same day (December 29) the deputies of the old cantons (except Bern) laid the foundations of a fresh federal union, recognising the existence of the new cantons, and excluding dependent or subject territories from the Confederation. In March, 1814, Bern retorted by convoking a "legitimate Diet" of the old cantons, among whom, following her example, first Solothurn and Freiburg, then Zug, Uri, and Unterwalden, and finally (by means of a *coup d'état*) Luzern, restored their old Constitutions. After Napoleon's first abdication, disturbances broke out in many parts of Switzerland, which had in some instances to be suppressed by force of arms; and so late as February, 1815, Bern, together with Freiburg and Solothurn, was arming in order to force back Vaud and Aargau into their former condition of dependency.

Thus the task of the special Committee appointed at Vienna for dealing with Swiss affairs was a thorny one—the more so that at the Congress not only the plenipotentiaries of the Zurich Diet, headed by Reinhard, made their appearance, but every one of the nineteen cantons, old and new, was likewise represented. While La Harpe, through the Tsar, exercised a continuous influence upon Capodistrias, the ordinary Russian member of the Committee, Zurleder, the able deputy of the aggrieved "city and republic" of Bern, was strenuously supported by Stratford Canning. Numerous other claims were urged for restorations and reunions; and much time was spent on the conditions under which

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of an Italian Confederation was not so much as raised at the Congress of Vienna; and Labrador's proposal, on November 15, to appoint a committee for the affairs of Italy in general, was successfully opposed by Metternich, who urged that each Italian question should be dealt with separately. A beginning was, as we have seen, made with Genoa. Next, a small committee (consisting of Wessenberg and Labrador, with Noailles, Nesselrode, and Clancarty) was charged with the affairs of Tuscany and those of Parma and the sister-duchies; but it does not seem to have been regularly summoned, and had to deal with accomplished facts. In Tuscany, the Grand Duke Ferdinand III, who was also an Austrian Archduke, and whose rights rested on the Treaty of Vienna (1735), had been recognised by the Allied Powers; but against him Labrador urged the claims of the Bourbon Charles-Louis, son of the Prince of Parma and Marie-Louise, who as "King" and "Queen of Etruria" had misgoverned the country till, in 1807, it was incorporated in the French Empire. In putting forward the claims of the Infante Charles-Louis, and basing them on the Treaty of Madrid between France and Spain (1801), which had been undone by that of Fontainebleau (1807), the plenipotentiary of the Spanish Bourbons took up an untenable position, which his intemperate advocacy failed to improve. Metternich having brusquely refused negotiation, Labrador, by Talleyrand's advice, desisted from any further challenge of Ferdinand's rights.

Parma had probably been the real object of Labrador's efforts; but at this point the "Don Quixote" of Bourbon diplomacy was in conflict with the personal sentiments of the Emperor Francis I as well as with the policy of Austria. By the Treaty of Fontainebleau of April 11, 1814, the duchies of Parma, Piacenza, and Guastalla were assigned to the Empress Marie-Louise, with remainder to her son. Her claim was opposed by Labrador on behalf of the Infante Charles-Louis; but, though his title was good in itself, Talleyrand used his influence in favour of a compromise which would at once diminish the number of small Italian principalities and keep the son of Napoleon out of the peninsula. While the three duchies were to be allotted to the Bourbon claimant or to his mother, the Queen of Etruria, and Lucca with part of Elba to the Grand Duke of Tuscany, the Empress Marie-Louise was to be compensated by a pension on the revenues of the grand-duchy, and by certain "Bohemian fiefs" now owned by the Grand Duke, of which Reichstadt, in the Circle of Bunzlau, was one. The Emperor Francis I hereupon declared his willingness to consent to the abandonment by his daughter of her lawful claims, in return for fit compensation. But Metternich seems to have made it clear that Austria would insist on retaining a hold on Piacenza, the military importance of which was considerable; and Labrador lost his opportunity by demanding the three duchies or an Italian equivalent. Such an equivalent was only to be found in Lucca and the Legations; and of the latter the Queen's conscience forbade her to despoil the Holy

See. Such was the situation when the return of Napoleon made it necessary for Austria to hold fast to the duchies, but to exclude his son from the succession. Lucca remained the only possible compensation for the Queen of Etruria; and the conflict of money claims between the Lucchese and their former "Semiramis," Élise Bacciochi, had to stand over.

The duchies of Modena, Reggio, and Mirandola were claimed by Duke Francis IV, the son of Archduke Ferdinand and the grandson of Ercole III, the last Duke of the House of Este, from whom they had been wrested with more than the usual effrontery. His rights were assured of acceptance by the Powers, and in return he proved a faithful adherent of the Austrian *régime*. The duchy of Massa, with the principality of Carrara and certain Imperial fiefs in the Lunigiana, were not reunited with Modena till after the death (in 1829) of Duke Francis' mother, Archduchess Marie-Beatrix of Este, to whom the Congress had assigned them in her own right.

So early as August, 1814, Cardinal Ercole Consalvi had called upon France, Great Britain, and Austria to reinstate the Holy See in its dominions, though the Legations (Ferrara, Bologna, and Ravenna) were actually occupied by Austrian troops. At the Congress, Consalvi was instructed to demand the restitution of all territories in possession of the Holy See before 1791, when the National Assembly had decreed the incorporation of Avignon and the Venaissin. Accordingly, in the note which in October he addressed to the Committee of the Eight, he contended that the Treaty of Tolentino (1797), in which the Pope had ceded these territories to France, was null and void. Having not the slightest intention of relinquishing Avignon and the Venaissin, France could afford to favour the restoration of the Legations to the Holy See. Such a restoration had been deprecated by Metternich just before the conclusion of the Peace of Paris. The balance of opinion at the Congress was in favour of treating the Legations as conquered territory and therefore at the disposal of the Powers; and at one time they were thought of as a suitable compensation for the King of Saxony. In the end, however, Consalvi's exertions proved so far successful that the Legations (excepting the Ferrarese districts on the left bank of the Po) were recovered by the Pope.

Finally, the affairs of the Two Sicilies were, when the Congress opened, in a condition full of difficulty for the Powers in general, and specially embarrassing for Austria. At Naples King Joachim Napoleon (Murat), although his rule had never taken root in popular feeling, still maintained himself upon the throne. Notwithstanding that he had actually been a combatant at Leipzig, the Allies might even after that date have condoned his past, had he entirely severed his fortunes from those of Napoleon; indeed, towards the end of 1813 they might possibly even have put him in possession of Sicily. As it was, Metternich made the

mistake of concluding with Murat, on January 11, 1814, a treaty of peace and alliance, which guaranteed to him [illegible] return for Murat's guarantee of that of Sicily to Ferdinand IV. This treaty, with certain modifications suggested by Castlereagh, had received the approval of Russia, Prussia, and Great Britain; so that, at the opening of the Congress, most of the Allied Powers were pledged to leave Murat in possession of Naples, and find a compensation elsewhere for the legitimate claimant. In September, 1814, Queen Maria Carolina had died at Schönbrunn; but her efforts were, with considerable prospect of success, continued by King Ferdinand's plenipotentiaries, who were warmly supported by both Spain and France. Indeed, Talleyrand used his best endeavours to make this question a second touchstone of his dogma of legitimacy; and this time the Tsar seemed to lend a willing ear. But the obligations incurred by Austria could not be ignored; and Castlereagh finally agreed with Metternich that the settlement of the Neapolitan question should be deferred to the close of the Congress. Intentionally or otherwise, they thus (as will be presently seen) enabled Murat to ruin his own chances.

The Order of St John of Jerusalem (the Order of Malta), while wholly or in part despoiled of its estates and revenues in France, Italy, Spain, and Germany, had in 1788 been driven from Malta itself. Though the Peace of Amiens had stipulated for its restoration to the Order, the island had by the Peace of Paris, without so much as the suggestion of an indemnity, been assigned to its actual ruler, Great Britain. In consequence of the refusal of Pope Pius VII, in deference to the wishes of Napoleon, to confirm the last election of Grand Master, this office was at present held vicariously; but the organisation of the Order, which had temporarily established itself at Catania in Sicily, remained intact. Its plenipotentiaries at the Congress, Bailiff Miari and Commander Berlinghieri, both of the Italian "language," were duly recognised by the Committee for the verification of powers; but they demurred to the association with them of a deputy representing the "language" of France. Several of the Great Powers were favourably disposed towards the Order, though the Emperor of Austria was thought to have designs upon its estates in Lombardy in the interests of the Order of Maria Theresa. Louis XVIII was under a special obligation to the Order of St John, dating from the calamitous days of his elder brother, and had instructed his plenipotentiary to ask for Corfu as a compensation to it for the loss of Malta. Great Britain, though she had no intention of relinquishing Malta, could not in principle have opposed the grant of a compensation; but, as to this, the agents of the Order appear to have been without definite instructions, and their plea for an indemnity came in any case too late (February 24, 1815). The renewed outbreak of war entailed fresh services on the part of Great Britain, of so much importance to the interests of Europe, that, instead

became manifest that neither the two great German Powers, nor the rest of the German Governments, nor anything that deserved to be called public opinion or national feeling, had as yet resolved upon even the leading principles of a settlement. Thus the saying on which Frederick William IV of Prussia ventured in 1850, that the time had come for Germany to be as free from the control of Europe as were Great Britain or France, would in 1814–5 have seemed strangely premature to Germany herself.

For many years during the course of the Revolutionary Wars, and more especially since the ill-omened Peace of Basel (1795), jealousy and distrust had prevailed between the two great German Powers; while the political conduct of the other German States, either openly dependent upon a foreign protector or retaining the pretence of a sovereignty of their own, had been dictated by the instinct of self-preservation or by the cognate impulse towards self-aggrandisement. When, after the collapse of the Russian expedition, Frederick William III's proclamation (March, 1813) called the Prussian people to arms, it was but gradually that the resolve to liberate Germany at large from the dominion of the alien overspread the whole of "the German's Fatherland"; and still more slowly that attention began to be given to the constitutional methods and forms that were to regulate the national life of emancipated Germany. As was inevitable, the first ideas on this subject were vague and indefinite; nor could it in any case be expected that hopes and aspirations for a new era of the national life should move in the same plane as the claims and designs of the chief German Governments and dynasties. In the negotiations which combined Austria and Prussia against the falling conqueror, those Powers publicly guaranteed to each other their restoration to a territorial dominion such as they had possessed before the wars of 1805 and 1806 respectively. But the two Governments made no attempt to discuss, in the interests of the nation as a whole, either the future constitutional settlement of Germany or the particular question of headship; and, instead of asserting themselves as the natural guardians of those interests, they merely concurred in the undertaking as to independence and federation, agreed upon at Chaumont and inserted in the Peace of Paris.

Thus, whatever Germany might think or say on the subject, the political axiom had been laid down that the future bond between the German States must be a federal bond; and, having accepted this conclusion, each of the two great German Powers was intent upon safeguarding itself against any attempt on the part of the other to establish an ascendancy which might develop into a hegemony over the Confederation. At the same time both had resolved to defeat any attempt on the part of the other German States to form by combination a third Power capable of holding the balance between the two great Powers; and thus the claim of Austria and Prussia to represent Germany

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9<' =9 0<' 4 ; ?' 2B<<B& 0 2<' 42B' 4" 240 :4 B& =45' 2 "' 2:; < :5' <2 :-9' '"9<' "45>' ' <5 5" 2-' "9<' :2 "<B' 9 5"5' ' : A<)' 4A 0< 2' @40@:04"<B' "94"& ' 9<' 94B' C<<2' 0< "' 40 2<' " 00' @" C< & 9<' ; -9"' 94G<' 4 5<B' & ' ' <G<2' & ' ; <2)' :"' 9<' =45' =<00 4=4 <' "94"' "9 5' 0< 5: <' = :0B' 2 "' C<' - 42"<B' 9 ;)' "' =45' :5<0<55 " ' B< ; 25" 4"<' "94"' 2' @" C< & C?' "9<' 4 B' ' @ 25@ A" 2& "9<' <- B4 ' 4 ; ?' ; -9"' 94G<' 59 =2' Z & ' ; <2' :2B<' 4 ; 5& 42B' "9<' @<' '"9<' 4" 240 :4 B' ; -9"' 94G<' C<<2' B :C0<B)' ; <' =45' <G< ?"9 2-F' 42B' '"9 5' 9 5' <2<; <5' =<' <' 45' =<00 4=4 <' 45' 9 ; 5<0)

:"' ; 0"4 ?' A C0<; 5' ; <B' 20?' A4 "' '"9<' @0 :B' '@4 <5' =9 @9' C<5<"' 4A 0< 2' 2' A 0' 42B' 4?& K KU)' <' 54=' "94"& ' 9<' =45' " ' C"4 2' 5 0 B' 5:AA "' ; ' 42@<& 9<' ; :5"' 4C42B 2' 9 5' 0B' 4:" @ 4" @' ; <"9 B5' 42B' A 5<' 45' 4 0 C< 40 5 G< < -2& <4B?' " ' @ 25:0"' 9 5' A< A0<' 42B' " ' ; <<"' "9<' ' B<5 <5)' G<2' (:5' X 0 ' 94B' - 42"<B' "9<' @ :2" ?' 4' 94 "<' 42B' 4' 25" ":" 2)' 9<' =4 ; "9' ="9' =9 @9' "9<' ; A< ' 94B' C<<2' 4"' 5"' <@< G<B' @ 0<B' B =2' :2 ; 5"4>4C0?' =9<2' '" C<@4 ; <' >2 =2' "94"' 9 5' <": 2' ; <42"' =4 ' = "9' 400' : A<)' <' 54=' "94"' 9<' ; :5"' A:' "9' 5 ; <' A - 4 ; ; <' =9 @9' = :0B' :5<' <2"9:5 45 ; F' 42B' 9<' B<"< ; 2<B' = "9' 5 ; 400' 9<5 "4" 2' "94"' "9 5' A - 4 ; ; <' ; :5"' "4><' "9<' ;' ' 42' 4AA<40' " ' "9<' (C< 40' 5<@" 2' ' "9< 24" 2)' <' ; :5"' " ?' " ' :5<' "9<

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J J J x J' J x x

3 ' F))))))

: 55<05' <5< G<5' " ' <4@9' "9<' 2"(' 42B(' 59 "0?' 4 "< ("9<' : >< '
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B G<2' (42B' "9<' 400 <B' 0 2<' < ; <B' "5<0)' <?(=9 ' 9 8 ' 2 =' 0<4 ; "'
"94"' 9 5' ; 45"<' ' 94B' @400<B' ' "9<' @ A5' ' BJ 0 2(9 5' 5 0<' <5< G<(=45'
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2 42" ?' @<(94B' @ 2B< ; 2<B' 9 ; '" ' B< <4"F' 2' 9 5' 4 -<(<?' 5<2"' " ' <@400'
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; 4> 2 -' (-2?' 4' B<@ 5 G<' C4""0<)' : "' "9<' ; 55 2 -' @ A5' =45' " ' 04"<' 2'
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B G ; : ("9<' " 59' : 4 B5(42B' = "9' "9<' 4 B' ' 5) < 2 < ; ; "'
4""4@><B' "9<' ' <2@9' 40 2 -' "9<' = 9 0<' 0 2<)' 5' 5 : A ; "?' 2' 2 : ; C< 5'
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)' @<B' " ' <": 2' " ' "9< ' - 240' A 5 " 25' =9<2' B4 >2<55' C : -9"' "9<'
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% <00 8" 2' ; ' 5<2B 2 -' 4' 5 2 -0<' ; 42' " ' 0 @9< (5' 4 B)' (-2?' = : 0B'
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@ 2"4 2 2 -' @ A5' 2' 2"' ' 9 ; ' <4 0?' 2' "9<' B4?(42B' 94B' "9<' 2' ; 4 @9<B'
' ! "' ; 42B)' 9<' <45 2' =9?' 9<' 4 0<B' " ' B ' 5 ' =45("9<' 04"<2<55' '
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C< < 9<' 4-4 2' -4G<' C4""0<)' 4 0?' 2' "9<' ; 2 2 -' 9<' 5<2"' = B' " ' "9<'
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" < -4 ; <) < 94B 2<=5 ; 4B ?&B4"<B ; < ; C0 :D 4"K $)) 2 "9< Y"9& " "9< < <@" "94" 2< $:55 42 @ A5 94B <" <B 2 %4G <& C : " "94" "9< <5" "9< " A5 B< <4"<B 4" X+2?= =< < 9<4B 2- 8a $< =<a& 2 "9< 4B " (8-<& # =< < 400 2-C4@>" " =4 B5 "9< C45<& 42B 0<4G 2-%<00 2-" 2 " 9 5 4"<) 9< 4 5940 4BB<B"94"9< 2"<2B<B " 00 =" "9< @< "94" 94B ; G<B 2 %4G <& 2 B< " 9<4B " ; :55<05 42B 5<A4 4"< ; "9< " 59 4 ; ?) 9 5 2 ; 4" 2 5<< ; <B " - :4 42"<< "9< ; A< 4-4 25" 42? 2"< < <2@< 2 "9<A4 " "9< $:55 425) :@9?& " 5 " :<& 0<4 2" ; < "9< 4@"5 "9< 5 ": 4" 2 2 "9< 00 = 2- ; 2 2-& 42B = "< 4" $ " 2 ; 9 5 ; 45"< "94" "9<C :0> 0 B < 05 ; <2 94B - 2<" %4G <& 2 " "$< =<a) : " "9 5 B<5A4"@9 B B 2 " <4@9 (4 <00< 00 42@<" 00 4 "< 4A 0< 2 94B ; 4B< 9 5 4 42-< ; <2"5 42B& <G<2 " 94B 4 G<B <4 0 < & "@ 2"4 2<B 2 9 2 " "94" "9< $:55 425 =< < ; G 2- 2 2" ! " 6<42)

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)

"9<?' ; G<B' :A& 5:AA "<B' C?' "9<' 0 -9"' @4G40 ?' '"9<' ; A< 40' :4 B& ; 2-' 2' 400' 4' ; 455' 'U 'G<"< 42' 9 5< ; <2)' "' "9<' 5 -9"' ' "9<' '4AA 4@9& "9<' "<<2' "59' 42B' 4 2 G< 42' C4""40 25' ; 2-' %<00 2-" 2J5' -9" @<4 " <' <00' 2" ' 5N:4 <5& 42B' A <A4 <B' " ' = "95"42B' "9<' 59 @>)' 9<' " < ; <2B :5' <A 5 B<' =9 @9' 00<B' "9<' 2<D"' "= ' 9 : 5' =45' "9<' A4 "' "9<' C4""0<' '%4"< 0 ' =9 @9' ; A <55<B' "5<0 ' ; 5"' 5" 2-0?' 2' "9<' ; < ; ?' '"9<' 5: G G 5' 2' "9<' " 59' 5 B<)' <G< & 2' 400' "9<' 4A 0< 2 @' =4 5& =45' "9< <' 5 'A 0 2-<B' 4' =9 0= 2B' '@4G40 ?' @94 8 5'45' "9 5<' =9 B ' 00<B' "9<'04"< '9 : 5' '"94"' 4 "< 2 2)' 094:BJ5 5"' 2504:-9"' =45' 20?' "9<' C<- 22 2-F' 9<' C <45"<B' "9<' 50 A<& B G<' "9<' 400 <B' -:22< 5' ;' "9< 'C4"" ; <5& 42B' "9<2' B459<B' 4"' "9<' 5N:4 <5)' 9<?' B B' 2 "' 2@9& 42B' " D< ' <' C0<=' "9<' !N:4B 25' " 'A <@<5F' "9<2' %<00 2-" 2' B< <B' 9 5' =2' @4G40 ?' <5< G<5' " ' 4BG42@<& 42B' B G<' "9<' <2< ; ?' B =2' "9<' 50 A<)' :"' "9<' 4""4@>5' =< <' <2<=<B' 4-4 2' 42B' 4-4 2F' 42B& 2' "9<' 2"< G405& "9<' ' <2@9' 4 " 00< ?' A04?<B' :A 2' "9<' " 59' 5N:4 <5' = "9' B<4B0?' < $<@")' "' =45' "9< ' :2B 59 "& 42B' 2 "' "9<' 5= B5' ' "9<' <2 455 < 5& =9 @9' ; 4B<' 5:@9' 94G @' 4 ; 2-' "9<' C4""40 25' ' %<00 2-" 2J5' @<2" <)

%9<2' 094:B' 94B' 4 0<B' " ' C <4>' 4' 5 2-0<' " 59' 5N:4 <& 42B' 9 5' @ A5' =45' 9 A<0<550?' B 5 -42 5<B& <?' @400<B' :A' "9<' <5"' '"9<' <5< G<' @4G40 ?' ;' "9<' 5<@ 2B' 0 2 & <00 ; 422J5' "= ' B G 5 25' '@: 455 < 5F' "9<?' =< <' 00 =<B' C?' "9<' 9<4G?' 5N:4B 25' '"9<' :4 B)' 9 5' 5A0<2B B' G<"< 42' @4G40 ?& '5" 2-& <00' :A 2' "9<' @ AA0<B' 5N:4 <5F' 094:BJ5 5@4""< <B' C -4B<5' < ; <B' "9< ; 5<0G<5& 42B' <00' 2' 45' 5:AA "5' " ' "9<' 2<=' 4""4@> 2-' @<)' 9< <' 00 =<B' 42' 9 : ' '@ 2 :5<B' @# "9<' 9 5< ; <2' B<'8"9 :-9' "9<' 0 2<' ' 5N:4 <5' 42B' <G<2' " ' "9<' G< ?' <4 ' '"9<' " 59' A 5 " 2& @94 - 2-' <G< ?') 4@<' ' "9<' B= 2B0 2-' C0 @>5' ' " 59' 42B' 8 ; 42' 2 42" ?& C:'" 40=4?5' 4 0 2-' " ' C <4>' 2)' # <'" "9<' 5" <55' =45' 5 ' - <4"' "94"' %<00 2-" 2' :5<B' :A' 400' 9 5' @4G40 ?& 54G<' "9 5<' ' "9<' <D" < ; <' 0< '" = 2-& 2' "9<' 5" : - -0<& 42B' - 4B:400?' A:59<B' =4 B' 2" ' "9<' -9" 2-' 0 2<' "9<' =9 0<' ' 9 5' 2 42" ?' <5< G<& 54G<' 2<' :"@9 <0- 42' B G 5 2& =9 @9' 59 =<B' 5:@9' :2<N: G @40' 5 -25' ' B< ; 40 54" 2' "94"' "9<' :><' B4 <B' 2 "' 5>' "' 2' "9<' 2")' 9<' 59 2>4-<' 2' "9<' 42>5' ' "9<' 5N:4 <5' =45' <4 :0F' "9<?' =< <' B <4B :00?' ; 4:0<B' C?' "9<' ' <2@9' 4 " 00< ?' B: 2-' "9<' 2"< G405' ' "9<' @94 -<5& 42B' 94 455<B' C?' "9<' <' ' =9 ' @ <A"' :A' @0 5<' " ' "9<; ' 42B' @ BB' 2 "' C<' B G<2' & ' " ' A<2' :"' 2" ' 0 2<' = :0B' 94G<' ; <42"' :""< ' B<5" :@" 2' 4"' "9<' 942B5' ' "9<' @4G40 ?)' 2<' C4""40 2' ' "9<' < ; 42' (8 2&' B< <B' C?' "9<' $ 2@<' ' 42-<' " ' B<A0 ?& =45' 4C5 0:"<0?' <D"< ; 24"<B' C?' "9<' @: 455 < 5' C< <' "' @ :0B' <5: ; <' "5' ; 4" 2)

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Z / 1 J > % + I U

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'" ; - 9'" 94G< C<<2' = "9' = 9 0< " ' + 9")' : '" 2 ' 2< >2<=' =9<"9< ' "9<
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" ' ; 4>< 4' A ; A'" 5 : C ; 55 2' " ' (: 5' X)' ' : "9< ' <5 5"42@< = : 0B'
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G< 2 ; <2'" <@ - 2 5<B' (: 5' 45' 6 8 - & 42B' "9<' 94 ; C< 5' B 55 0G<B'
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: - : 5'" =45' : "& 42B' 59 =<B' "9< ; 5<0G<5' [' ; < ?40 5'" "942' "9< / 2 -)\

the elder branch of the Bourbons. The tact and skill with which, in these circumstances, Talleyrand maintained his position and that of his Government at Vienna certainly call for admiration. The smaller States of Europe, almost without exception, gave in their adhesion to the treaty. The German States, in acceding on April 27, agreed that all their efforts should be directed towards maintaining the provisions of the First Peace of Paris; Gagern's refusal to sign seems to have been due to his dissatisfaction with the frontier assigned to the Netherlands. His Dutch colleague signed, but Münster also held back; and the adhesion of the King of Denmark, who it must be allowed had reason enough for delay, did not come in till all was over (August). Spain and Sweden persisted in their refusal; but their abstention, caused in the former case by sullen pride, and in the latter by the withholding of a British subsidy, counted for very little.

At Vienna, though all eyes were turned towards the theatre of the impending struggle, there was at the same time a general wish to prevent the threads of the diplomatic transactions from being scattered while it was still possible to gather them up; and the settlement by the sword for which Europe was once more waiting might be hastened by removing all doubt as to conclusions already settled in principle. Thus, on April 7, the Emperor of Austria proclaimed the union of the Italian States now subjected to his rule, under the designation of the Lombardo-Venetian Kingdom. A few days earlier (April 2) he had provisionally taken over from his daughter the administration of the duchies of Parma, Piacenza, and Guastalla. The affairs of the Helvetic Confederation were hastened by the Declaration adopted by the Eight Powers on March 20, which was solemnly accepted by the Diet on May 27 following. The arrangements as to Poland were rapidly formulated in two treaties, concluded on May 3 between Austria and Russia, and between Russia and Prussia, respectively; and on the same day the plenipotentiaries of the three Eastern Powers signed a further treaty as to the Republic of Cracow. This scanty remnant received, as if by way of compensation for the incorporation in Prussia of the free city of Danzig, a guarantee of its independence and neutrality, together with a Constitution. To the Poles who were subjects of any one of the Three Powers the treaties promised the grant, at such time as might seem expedient to each Government, of institutions preservative of their nationality; and, before the Tsar quitted Vienna, he proclaimed the bases of the Constitution intended by him for his kingdom of Poland, which were immediately to regulate its provisional administration, and included an indissoluble union with the Russian Empire. The Saxon difficulty ended with the conclusion of a treaty of peace on May 18 between Prussia, Russia, and Austria, and King Frederick Augustus, who had at last been made to see the wisdom of yielding to necessity.

Only two problems of first-rate importance still remained unsolved.

These were the two questions which, as has been seen, Castlereagh had before his departure from Vienna specified to Liverpool—viz. the Neapolitan, and that concerning the future Germanic Constitution. The former necessarily entered into a new phase with Napoleon's return, though already Murat's action had been influenced by the hopes which he founded on that event. By acting blindly on the assumption that Austria was in complete accord with those who sought his ruin, Murat relieved her from the difficulties in which she had involved herself by guaranteeing Naples to him in the treaty of January 11, 1814. He now called upon Italy to arm on behalf of her independence; whereupon, on April 18, the Austrian Government published a manifesto which, while exposing the duplicity of Murat's conduct, declared him to be (as *de facto* he had been for weeks) at war with Austria. A British declaration of war against him speedily followed. Early in May the Austrian Government signed a treaty of alliance with King Ferdinand IV; and on the 23rd of the month the Austrian troops entered Naples. Yet no overt act of the Congress or of any of the Powers had declared King "Joachim Napoleon" to have forfeited his throne; and in the British Parliament Castlereagh had to argue that their engagements towards him lapsed with his attack upon Austria. Even now, had he shaped his conduct with more circumspection, some compensation might have been allotted him. His end is told elsewhere; his consort Queen Caroline, whom a revolt of the *lazzaroni* had forced to make terms for herself, was treated very considerately by the Emperor of Austria.

After the collapse of the endeavours of the "Pentarchy," the question of the future Germanic Constitution had, it will be remembered, been kept alive by the efforts of the minor States and by the imperturbable assiduity of Humboldt. On Napoleon's return, it became clear that the choice lay between two courses. Either the whole subject must be deferred till a more favourable season—and, as a matter of fact, Hardenberg would have been content with the merest laying of foundations till the war was over—or, if the Congress was to offer something beyond this to the German nation, then what had to be done must be done quickly, even though inadequately. After two further drafts had been brought forward by the Prussian plenipotentiaries, Metternich at last, early in May, took action by laying before them, in a slightly revised form, Wessenberg's draft of the previous December. In a series of conferences, at which this draft served as basis, he and Hardenberg evolved a final draft—the ninth of the series—which Metternich in the name of both the Austrian and the Prussian Governments submitted to those of all the German States.

This draft proposed a Federal Diet, in which out of fifteen votes Austria and Prussia should have but one each, the former Power holding the presidency, but without a casting vote. There was to be no smaller council, committee, or other executive body; and the members of the

Tuscany" (Napoleon's sister Élise), or for the Crown Prince (Bernadotte) in consideration of the restoration of his former principality of Ponte-Corvo to the Holy See. Spain refused altogether to sign, Labrador recurring to the complaint by which he had answered a previous invitation to agree to the settlement about Parma and the restoration of Olivença to Portugal. Only a small proportion of the subjects dealt with in the Final Act had, he urged, been reported in the sittings of the Committee of the Eight; and a fraction of these Powers ought not to be permitted to settle the affairs of all Europe, merely summoning the rest to accord or refuse their signature. The Spanish protest was at bottom much the same as that of Gagern, who, when dissatisfied with the conditions of the Netherlands settlement and informed by Wellington that it had been made by the Great Powers, "very much as was the case with the Treaty of Chaumont," retorted that of this newly-invented term "the Great Powers" he knew neither the precise import nor the intention. The Congress of Vienna by its procedure set the seal upon the principle that the settlement of the affairs of Europe appertained to the Great Powers, and that the other States had merely to decide whether they would accede to such settlement or not.

Whether we review the provisions of the Final Act of the Congress in detail, or as a whole, it is not easy to keep asunder the two questions as to what it actually accomplished and as to what it left undone. First and foremost, the Congress had sought to secure to the political system of Europe a stability which it had not enjoyed since the First Partition of Poland. The fulfilment of this purpose was not easily reconcilable with the "satisfaction" of those Powers who were desirous either of recovering or extending their former limits, or of sacrificing as few as possible of their recent gains; nor again could it consistently be combined with deference to the principle of legitimacy, as cherished by many of the sovereigns and statesmen assembled at Vienna, and put forward, by the Bourbon interest in general and by the sagacity of Talleyrand in particular, as of paramount importance for the Governments of Europe. In seeking to restore the balance which the Revolutionary and Napoleonic era had upset, the Congress of Vienna was not content, like that of Westphalia, with more or less localising the range of its efforts, or, like that of Utrecht, with directing them entirely against the danger of the preponderance of a single Power. France, while recovering the greater part of her colonial possessions, had been virtually restricted to her boundaries of 1792; and by means of new territorial dispositions along her eastern borders securities had been provided against a new infraction of the peace of Europe. But the Congress had at the same time shown itself sensitive to an excessive increase of the territorial strength of Russia, whose partnership Napoleon had formerly been prepared to accept in his vastest schemes of dominion. To the question of the balance of maritime power the

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from the Bourbons was very soon to give way to reactionary influences. The Austrian Emperor's goodwill to Napoleon was an audacious fiction. Nothing would prevent a second recovery of the throne of France by the Bourbons but a manifestation, such as now seemed wholly improbable, of the national will; and nothing was likely again to cut short their tenure of that throne but disloyalty to their own promises, or a fatal want of common-sense in themselves.

While the Final Act thus avoids much direct reference to France, it accords even slighter mention to the Power on the rock of whose resistance the wave of her disturbing action had broken. Great Britain's maritime supremacy was tacitly allowed by the European Concert; nor did the Congress so much as consider the propriety of subjecting to international discussion the practices and claims which that supremacy involved. Her colonial conquests in part were retained and in part renounced, according to her own decisions. Of her own free choice she returned portions of her conquests to France, which in 1810 had been left without a single colony. To the Dutch, whose entire East Indian possessions had been in her grasp before the close of the war, she now returned them all except Ceylon; on the other hand, she retained Demerara and Cape Colony. No notice was taken in the Act of the final cession to Great Britain by Denmark of the island of Heligoland, the occupation of which had proved highly profitable during the War. The influence of Great Britain was, naturally enough, thought traceable in the considerable increase of territory granted at the Congress to the new kingdom of Hanover, and in the exclusion, by the restoration of East Frisia to that State, of Prussia from the coast-line of the German Ocean. Nothing had come of the feeble attempt to amend the provision of the Peace of Paris which had finally established British rule in Malta. The return of Napoleon frustrated any scheme for providing the Order of St John with an indemnity in Corfu, or elsewhere. Elba was now transferred to the Grand Duke of Tuscany; while Corfu (where Bavaria would have liked to settle Eugene Beauharnais) was with the other Ionian Islands soon afterwards placed under the British protectorate. Ypsilanti and his fellow Hotspurs, incessantly scheming to engage the sympathies of the Tsar on behalf of the liberation of Hellas, were checked by the unwillingness of the other Great Powers to open the Eastern Question, of which the Greek problem formed an integral part; and the Tsar himself had no wish again to revive a jealousy like that provoked by his attitude of friendship to Poland.

Great Britain had throughout taken the most active interest in the negotiations concerning the newly-established kingdom of the Netherlands. The treaty which placed Belgium and Luxemburg under the Prince of Orange, now King of the Netherlands, was not concluded between him and the Four Allied Powers till May 31, 1815; but his acceptance of the sovereignty of the Belgic Provinces had been signified

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B G B 2-' "9< ; ' ; ' 2< 42 "9< (=45 B<@04 <B(2' 4' :2 ; ' 5?5"< ; (52C <@'" " ' 5A<@ 40 "84-GB4" 25 2' <4@9' @45<F 42B' ; B< 4"< B:<5(2 '" G4 4C0< :20<55 = "9' "9< @ 25<2'" ' 8 ' "9< !"4"<5' @ 2@< 2<B(=< < A <5@ C<B)' C < ' B 5" @'" 4BG42"4-< 9 g<C?' 5<@: <B' '@ 2" 2<2"40 @ ; m ; < @< =45 '"0 8'9 A<5'" ; A "< ; @< 4'" 4' " ; < =9<2' G< 5' 5" 00 4 B<B' "9< A 2@ A40 ;<4 !' '"9< " 425A '" 9<4G?' - B5F 42B' '" =45 2 '" :224": 400?' 8 <""<B' "94'" "9< 2- <55 59 :0B' 2 '" 94G< A @<<B<B' : "9< (42B' <554?<B' "9< ; < B @:0'" "45>' 4@ 0 "4" 2-' 2' 5 ; 04 ' 0 2<5' "9< @ ; ; < @ 40 2"< @ : 5< C<"=<<2' !"4"<5' 2' "9< @ 45"5' '"9< 2"< 240 5<45 ' ": A<(<5A<@ 400?' "9< <B "< 42<42' 42B' "9< 40" @) 9< <@04 4" 2' ' '<C :4 ?' &K KU(@ 2@< 2 2-' "9< @42' 504G< ' " 4B<(94B' 422 :2@<B' "9< 2"<2" 2' '"9< -9'" $ =< 5' " ' @4 ?' :'" "5' :2 G< 540 4C 0 " 2' 45' A ; A"0?' 42B' < @4@ :50?' 45' A 55 C0< C?' 400 "9< ; <425 4'" 9< 'B 8 540 :"(45' "9 5' <@04 4" 2' 0< '" " ' <4@9' $ =< ' "9< @9 @< '"9< B4"< = 9 @9' '" ; -9'" @ 25 B< ' ; 5"5: "4C0< '@4 ? 2-' :'" "9< B< 2 " G< 4C 0 " 2' 2' "5' =2' @45<("9< :2 G< 540 4@@ ; A0 59 ; <2'" '"9< - <4'" < ;' < ; 4 2<B' 4' ; 4"" < ' '2<- " 4" 2' 4 ; 2-' "9< $ =< 5)' 9< B @: ; <2'" =45 A 2"<B' 4 ; 2-' "9< 4 ; <D<5' " ' "9< ' 240 @"("9< "<D'" ' =9 @9' @ 2"4 2<B' 2 ' < < <2@< " ' "9< 5:C <@")' 2' ; A "42'" 5"<A' =4 B' =45 "4><2' =9<2' 4A 0< 2F 49> :5' " ' @ 2@ 0 4"<' " 59' A:C0 @' A 2 2' 2' 9 5' <":' 2' ;' ' 0C4(B<@ <<B' "9< ; ; <B 4"< 4C 0 " 2' ' "9< 8G< " 4B< "9 :-9 :'" "9< ' < ; @9' : A <F 42B((:5' X ' 94G 2-' C<<2' A <G4 0<B' :A 2' C?' " 8' B A0 ; 4@?' " ' ='"9< :5: A< J5' <D4 ; A0<(4 <? ; B' @ :0B' 2' 6:0?' ' 2 ; ' "9< <A <5<2"4" G<5' ' "9< 00 <B' $ =< 5' "94"(5 ' ' 45' ' 42@< =45 @ 2@< 2<B("9< 504G< " 4B< =45' ' <G< ' 4'" 42' <2B)' 9 <' <A 4@9' B<0 C< 4"<0?' @45'" :A 2' <4'" "4 2' 2' 2< ' "9< 5 "" 2-' ' "9< !04G< " 4B< ; ; ""<< 642:4 ?' E' =45' 4 "< =4 B5' <A<4"<B' C?' 4 B 240 2540G 3 "94"(=9 0< 5 ' 4 B<2'" 2' 9< ' @ 2B< ; 24" 2' ' "9< @42' 504G< " 4B<(59< 94B' B 5A04?<B' @:0A4C0< 2B < <2@< 45 " ' "9< 4@"5' ' G 0<2@< @ ; ; ""<B' 4-4 25'" "9< A< 5 240 0 C< "?' ' 9 5" 425' C?' "9< 4 C4 ?' A 4"<5)' 9< 5:C <@'" 94B' C<<2' C :-9'" 42B' ><A'" C< <' "9< 2- <55' C?' "9< <D:C< 42'" <2< -?' ' ! ' ! B2<?' ! ; "9F C:"(40"9 :-9' <4'" "4 2' 5<< ; <B' ; <' "942' <G< ' @400<B' :A 2' " ' 5<'" '" 4'" <5'" 5 2@< 59< 94B' "8<2' A 55<55 2' ' 40"4(=9 5< >2 -9"5' 94B' C<<2' "9< 4AA 2"<B' A "<@" 5' ' <B "< 42<42' 9 5"<2B ; ('" =45 20?' C?' "9< + < 5' <DA<B " 2' ' K K ' "94'" 59< < <@":400?' ; <'" "9 5' <5A 25 C 0 "?)

9< 045'" ' "9< 422<D<5' " ' "9< ' 240 @"' ' "9< 2- <55' =45' "94'" =9 @9(45' 40 <4B?' ; <2" 2<B(@0455 <B' "9< B A0 ; 4" @' 4-<2"5' ' "9< 5<G< 40 $ =< 5)' 9<5< <-:04" 25' <DA <550?' 4C5"4 2<B' ; ' 2" B:@ 2-' 42?' @942-< 45' " ' "9< 0<-4"<5' 42B' ! ! !' ' "9< $ A<(=9 ' 45' 4' ; 4"" < ' @ : 5< =< < 42><B' 2' "9< 5'" @0455 = "9' 4 ; C4554B 5)' :'" "9< @ 40 % 4"9' ' 8 ' 4" @42' 4'" ; :@9' "94'" "9< 2- <55' 94B' B 2<(' 2<-0<@"<B' " ' B (=45' 2 '" "9:5 " ' C< 4AA<45<B)' 2' 6:2< KZ' >H2' 540G ' 8B <55<B' " ' "9< ! -24" ?' $ =< 5' ' "9< $<4@< ' $4 8' ; "9' 42

4@@ ; A42? 2-ʻ 2 "<ʻ 4ʻ A "<5"ʻ =9 @9ʻ 2@<ʻ ; <ʻ 4B A"<Bʻ "9<ʻ 4"" ": B<ʻ C5< G<Bʻ C?ʻ "9<ʻ $4A4@?ʻ 4"ʻ : 25"<ʻ ʻ 42Bʻ 4"ʻ ? ; 8<2)ʻ :"ʻ 2ʻ 42ʻ 400 @:" 2ʻ 4BB <55<Bʻ 2A"ʻ 0 2-ʻ 4 "< =4 B5ʻ " ʻ "9<ʻ !<@ <"ʻ 25 5" ?ʻ $:5ʻ ʻ 4B A"<Bʻ 4ʻ ; <ʻ @ 2@ 0 4" ?ʻ " 2<Fʻ 42Bʻ 2ʻ " :"9ʻ =9 0<ʻ K8ʻ @ ; A04 2"ʻ 45ʻ " ʻ "9<ʻ 2@ ; A0<"<ʻ <5" 4" 2ʻ ʻ 9 5ʻ "< ; A 40ʻ B ; 2 25ʻ =458 2<G ""90<ʻ 9 5ʻ 04 ; <2"ʻ G ; ʻ "9<ʻ <D" 2@" 2ʻ ʻ "9<ʻ 0?ʻ ; 42ʻ ; A <ʻ =45 0 ""0<ʻ ; <ʻ "942ʻ 4ʻ 9<" @40ʻ 0 : 59)ʻ 9<ʻ <400?ʻ ; A "42"ʻ <@"5ʻ ʻ "9<ʻ 9 : @9ʻ ʻ ; 8ʻ "9 :-9ʻ 2 "ʻ ʻ 4ʻ 24": <ʻ " ʻ C<ʻ B<40"ʻ = "9ʻ < "9< ʻ 2ʻ A "<5"5 ʻ 2ʻ 400 @:" 25ʻ =< <ʻ "94"8ʻ =9 0<ʻ "9<ʻ :0<ʻ ʻ $ "<5"42"ʻ A 2@<5ʻ 94Bʻ C<<2ʻ 2<=0?ʻ <5"4C0 59<Bʻ G ʻ 04 -<ʻ C B <5ʻ ʻ ʻ 4"9 0@ 5:C <@"5 3 82 "4C0?ʻ 5 ʻ 2ʻ $:55 4ʻ 42Bʻ "9<ʻ <"9< 042B5 3 "9<ʻ - <4"< ʻ A4 "ʻ ʻ $ 042Bʻ =9 5<ʻ <@@0<5 45" @40ʻ 400<- 42@<ʻ =45ʻ 0 ><= 5<ʻ B:<ʻ " ʻ ; <ʻ 94Bʻ C<<2ʻ A< ; 42<2"0?ʻ 5:C <@"<Bʻ " ʻ 8 <ʻ B ; 2 2ʻ ʻ :55 4ʻ "9<ʻ <A <5<2"4" G<ʻ $ =<ʻ ʻ >ʻ 45"< 2ʻ 9 5" 42 "?)ʻ ' ʻ ; <ʻ 42Bʻ 9<ʻ 4 -<2"5 2<=ʻ ; <"9 B5ʻ A ʻ ARB @?ʻ 94Bʻ 2@<ʻ ; <ʻ 9<< ; 2<ʻ 2<@<554 ?Fʻ 42Bʻ 4ʻ 2<=ʻ A ; Bʻ 2ʻ "9<ʻ 9 5"A ?ʻ A ʻ"9<ʻ %<5"< 2ʻ 9: Bʻ 98-42)

% "9ʻ "9<ʻ <D@<A" A2ʻ A ʻ "9<ʻ $4A4@?ʻ h ; Bʻ ! A4 2ʻ 400ʻ 9<ʻ <G< ; ; <2"5ʻ ʻ : A<ʻ 5:@@<55 G<0?ʻ 5<2"ʻ 2ʻ "9< ʻ 4B9<5 2ʻ " ʻ "9<ʻ ' 240ʻ @"ʻ 42Bʻ 2<Bʻ 2ʻ "9<ʻ 4" @4" 2ʻ =9 @9ʻ 2G 0G<Bʻ 4ʻ -<2< 40ʻ @ ; A0<"<ʻ 42Bʻ <@ A @40ʻ -:4 42"<<ʻ ʻ 400ʻ "5ʻ 4 " @0<5)ʻ 9<ʻ 04 -<ʻ ; 4 "?ʻ ʻ "9<ʻ A G 5 25ʻ @ 2"4 2<Bʻ 2ʻ "9<ʻ @"ʻ 42Bʻ <04C 4"<Bʻ 2ʻ "5ʻ 422<D<5ʻ 2ʻ 5 ʻ 4 ʻ 45ʻ "9<?ʻ 94Bʻ 2 "ʻ C<<2ʻ 40 <4B?ʻ @4 <Bʻ :"ʻ C< <ʻ "9<ʻ @0 5<ʻ ʻ "9<ʻ 2- <55ʻ =< <ʻ <D<@:"<Bʻ ; ; <B 4"<0?ʻ 4 "< =4 B5)ʻ 9:5ʻ "9<ʻ A< A<": 40ʻ 2<:" 40 "?ʻ ʻ "9<ʻ ! = 55ʻ 2 <B< 4" 2ʻ 42Bʻ "9<ʻ 2G 04C 0 "?ʻ ʻ "5ʻ "< " ?ʻ =< <ʻ 5 0<; 20?ʻ <@ -2 5<Bʻ C?ʻ "9<ʻ ' :ʻ 00 <Bʻ $ =<ʻ 5ʻ 42Bʻ C?ʻ ' 42@<ʻ 4"ʻ $4 5ʻ 2ʻ G< ; C<ʻ ʻ K K)ʻ "<ʻ ʻ "9<ʻ @ 2@0:5 2ʻ ʻ 4ʻ 5< <5ʻ ʻ @ 2G<2" 25ʻ C<"=<<2ʻ "9<ʻ 5<G< 40ʻ < ; 42ʻ G< 2 ; <2"5ʻ 42Bʻ "9<ʻ A ; 5<ʻ 2ʻ 2<ʻ 9:;ʻ ʻ 42 "9< ʻ ʻ <A <5<2"4" G<ʻ 25" ":" 25ʻ " ʻ "9<ʻ ʻ <5A<@" G<ʻ 5:C <@"5ʻ C?ʻ 400ʻ ʻ "9<;ʻ <D@<A"ʻ :5" 4ʻ "9<ʻ <"ʻ ʻ "9<ʻ < ; 42 @ 2 <B< 4" 2ʻ =45ʻ A<2<Bʻ 2ʻ G< ; C<ʻ U K K)

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"9< / 2- $:55 4 5 -2<B "9< ; 42 <5" >2 =2 45 "9< 0? 00 42@<& =9 @9 A @04 ; <B "94"& 40 >< 2 "9< - G< 2 ; <2"" "9< =2 ; 24 @9 <5 42B 2 "9< A 0 " @40 <04" 25 = "9 "9< !"4"<58 "9< 8 : R8 = :0B 9< 4C5 0 : "<0? <- :04"<B C? "9< A 2@ A0<5 "9< 9 5" 42 <0 8 ; &42B 2G "<B "9< 4B9<5 2 " "9 5 B<@04 4" 2 40 "9< 9 5" 42 ! G< < -25 42B $ =< 5 : A<& 2@0 : B 2- "9< 5"" 9 5" 42 / 2- 9 5 B @ : m ; <2"& =9 @9 94B C<<2 <0 : @"42"0? 5 -2<B C? "9< ; A< ' 42@ 5 42B / 2- ' <B< @> % 00 4 ; = "9 :"" C< 2- @ ; ; : 2 @4"<B " "9< 4C 2<"5& "9 : -9 <""< ; @9 94B 5<<2 42B B 50 ><B "" 42B 5 : - -<5"<B @< "4 2 @942-<5 = B 8& =45 2 " 4 24": < " C< ""<B 2" "9< A<4@< 2 8 " 4" 2 5F C : "" "9< 0U*> & "9< 4 : "9 " 9 5 [B A0 ; 4" @ 4A @40?A5<&0 =45 : 2 ; 5m "4>4C0? 42D "94"" "9< $<4@< @ 2@0 : B< 2B< 9 5 A <B ; 242" 2 0 : <2@< 59 :0B C< 4@@ : 2"<B "5 5" : "5)) = :0B "" C< B @ : 0" " 59 = "94"& "9 : -9 "9< 0? 00 42@< 94B 2 B <@" ; 40 @ 22<D 2 = "9 "9< !<@ 2B $<4@< $4 5& "9< " 4 2 B<45 =9 @9 0<B 0<D42B< " @ 2@< G< "9< 2< 5" 2 -0? 2 0 : <2@<B 9 5 A 0 @? = "9 8 ; B " "9< "9< & ; <5A<@ 8B0? 45 " "9< " <4" ; <2" % 2@<) 2B< "9< - : B42@< @9<0 < : & "9< <2B 4B4 ; < B< / B<2< & ' 42@< = :0B& "9< 55 9 A<B& 5 : AA " 9 ; 2 "9< <D<@ : " 2 9 5 45"< 2 B<5 -25& @ : 2"< m C4042@ 2- c <4" "4 2& 45 9 5 4 "9 :0 400? ' 55 4 = :0B @ : 2"< C4042@< :5" 4) # <" 9< B B 2 " <5 5" "9< <5"4C0 59 ; <2" "9< $ "<@" 4"< <4" "4 2 G< "9< [2 "<B ! "4"<5J) "9< 5<G<2 2 42 5042B5& =9 @9 =45 <@ 8 5<B C? "9< ' : 00 <B $ =< 5 2 G< ; C< U&K KU& "9 : -9 " ; A0 <B "9< A 4@" @40 <@ -2 " 2 " 59 24G40 5 : A < ; 4@? 2 "9< <B "< 42<42)

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@4) XX)

war-indemnity payable by France and the occupation of her soil by the Allies, lay in the wholly justifiable restitution of the artistic spoils brought to Paris by Napoleon.

The stipulations, intrinsically more important, as to the continued occupation of French soil by the allied troops were devised with studied moderation. The total of troops distributed among the northern and eastern fortresses of the kingdom was not to exceed 150,000 men; and the duration of their presence was not to extend beyond five years. The indemnity payable by France was fixed at 700,000,000 francs, to be handed over within five years; and exchequer bonds to the amount of 140,000,000 more were issued, to cover the debts due from France to other countries, which in reality reached a much larger total.

On the same day as that on which this Peace was signed (November 20) the Four Allied Powers agreed to a joint guarantee for its maintenance, thus carrying out the treaties of alliance concluded at Vienna on March 25, 1815, and at Chaumont on March 1, 1814. In this convention, while maintaining the exclusion of Napoleon and his family from the French throne, and renewing their mutual promise to unite if necessary in common measures of war, they undertook to renew at stated intervals meetings between the sovereigns and their plenipotentiaries on subjects of common interest, and for the discussion of measures conducive to the tranquillity and prosperity of their peoples, and to the preservation of the peace of Europe. Thus, while the Holy Alliance was distinctly regarded by the statesmanship of Europe as a declaration of principle leading to no direct results, the agreement between the Four Powers based upon the Treaty of Chaumont meant not only the renewal of an offensive and defensive Quadruple Alliance of the utmost moment, but also the actual beginning of the congressional epoch of European politics. It was left to the Congress of Aix-la-Chapelle (1818) to complete the system of the Five Powers acting in conference by the admission of France into what it declared to be a union animated by the fraternal principles of the Holy Alliance. Certain territorial questions left open at Vienna were here set at rest; others (including those of the Bavarian compensation and the garrisoning of Mainz) were settled by a Committee of representatives of the Four Allied Powers at Frankfort (July, 1819).

The Congress of Vienna was in its earlier days accused by critics, judging near at hand like the Prince de Ligne, or at a distance like Goethe, of wasting time. But the assembly which in June, 1815, hurriedly brought its labours to a conclusion was not justly chargeable with slackness. Its task had been, not to make peace in Europe—for, where this had not been accomplished before the meeting of the Congress it had no commission to bring it about—but to elaborate out of the conditions laid down by the First Peace of Paris a political system which should ensure to Europe an endurance of peaceful relations among her States. Within the nine months during which the Congress remained

agreed upon, might fairly be regarded as together offering as complete a security as in the existing condition of things could be obtained. At the same time, it cannot be said that in its territorial arrangements the Congress consistently followed either the principle of legitimacy or any other single principle; indeed, as was more or less inevitable, it largely followed Napoleonic precedent. This applies to the establishment of secondary States on the borders of States of the first class ("buffer-states" in more recent phraseology), as in the instances of the Netherlands and of Sardinia; and to the extinction, where possible, of republican Governments (though, paradoxically, Neuchâtel was forced into the Swiss Confederation), as well as of aristocratic political corporations. Nor did the Congress, though it might shrink from ruthless disregard of historic usage or tradition, show itself at bottom more readily moved than Napoleon had really been by considerations of nationality. The great historic wrong done to that principle by the partition of Poland was not undone at Vienna. Austria was allowed to consolidate her sway over a large part of Italy; Finland was left under the Russian dominion; Norway was severed from Denmark, to which it was bound by ties of language as well as by other associations. Historic antagonisms and antipathies were treated with as scant regard as were differences of nationality; Catholic Belgium was united with Protestant Holland; Genoa was subjected to her ancient foe the House of Savoy; and Sicily which, when in reluctant union with Naples, had possessed a separate Constitution, was now once more joined to her under a single despotic Government. But on the whole, a business-like spirit predominated in the territorial dispositions of the Congress; violent transfers of sovereign authority were avoided so far as possible; and there was little of that juggling with thrones and principalities which had been habitual with Napoleon. There was, however, a good deal of favouritism in the distribution to the advantage of petty potentates whom the great sovereigns, for reasons of state or of family, desired to oblige; and little appreciation of the claims of nationalities.

The Eastern Question in its various branches—among which the future of Greece, of the Danubian Principalities, and of Egypt had already become prominent—was, with the common consent of the Great Powers, passed by. From want of foresight, probably, rather than of courage, British statesmanship lost an admirable opportunity of impressing upon the Porte the necessity of reforming its internal administration and adhering to treaty engagements with the European Powers; and the indecision which had hitherto characterised Metternich's Oriental policy likewise operated in favour of inaction. But this was not the only important political question, sooner or later certain to become one of burning interest, which the Congress left untouched. The future of Spanish America likewise remained undiscussed, although British statesmen, and Castlereagh in particular, were fully aware that the old *régime*,

which had been restored in the Pyrenean peninsula, could not be revived in the Spanish and Portuguese colonies; and although it was manifest that an independent Spanish America would supply Great Britain, whose own colonial possessions had been so largely augmented, with a market such as had never before been opened to her in the New World. The repressive policy of the Spanish Government was sure to hasten a crisis; as for Portugal, the incorporation with it of Brazil into a single country had been announced, but the Prince Regent prudently remained at Rio. None of the Great Powers besides Great Britain cared to meddle with the Spanish American colonies, Russia wishing to play the part of trusted counsellor at Madrid in Great Britain's place, and France espousing the interests of the Spanish Bourbons.

Of special methods ensuring the peace and tranquillity of the European family of States, or the good government on which the general peace so largely depended, the Congress was not regardless, but it lacked the time and preparation for profitable discussion. Kant's *Project of a Perpetual Peace* had been just nine years before the world; but it had not yet won the deference which the principles united in it, rather than the accompanying proposals for their application, deserved; and the London Peace Society was not founded till 1816. The expedient agreed upon at Chaumont and reaffirmed on the conclusion of the Second Peace of Paris had to suffice—namely that of periodical meetings of representatives of the chief European Powers, to whose decisions the other States were to be invited to accede. No proposal for instituting a permanent tribunal of arbitration, or any similar authority for the settling of disputes between the States of Europe, could at present be expected to find serious support; the principles of the public Law of Nations, as interpreted by a preponderance of learning, had in the last resort to be enforced by the joint action of what Metternich called "moral Pentarchy," approved and supported by the remaining Governments. When the Congress assembled, there were no doubt many hopes that the dawn of a long if not perpetual era of peace might itself be heralded by a general disarmament. The Congress gave no sign of the willingness of the European Governments, or of the Great Powers in particular, to entertain any such proposal. But a reduction of the military forces of the individual Powers had been actually begun on a considerable scale when the return of Napoleon put a stop to the process. It was something that a beginning, however abortive, should have been made; and the negotiations for the termination of the second occupation of France probably benefited by the precedent. The conception of a permanent armed camp in each of the European States was foreign to the generation which had undergone the experience of a vast military tyranny.

The belief, in the main sincere, that the good government of the several States of Europe, and consequently its general peace, would

be greatly assured by the grant of popular representative Constitutions, was encouraged by many influences. Among these were the enthusiastic receptivity of the Emperor Alexander for the liberal ideals presented to him by some of his chosen associates, a widespread conviction of the excellence of the British Constitution, and the extraordinary prestige that had accrued to the constitutional form of government from the stability of the British State and its policy. Yet the process was repugnant to nearly all phases of continental conservatism, and most of all to the dynasty and statesmen of the Austrian Empire. Even Austria, however, made no objection to Constitutions outside her own dominions; and, in more cases than one, the statesmanship of the Congress, like that of Napoleon, was prepared to treat the grant of Constitutions as much less hazardous than their growth. The Final Act itself guaranteed the Germanic Constitution, which in one of its clauses announced that representative Constitutions would be granted in each of the States of the Confederation. It also declared the participation of the Belgic Provinces of the Netherlands in the constitutional rights of the Dutch; while it protected the national institutions of the Poles who had become subjects of the Russian, Prussian, and Austrian Governments respectively, conferred a Constitution on the republic of Cracow, and secured representative rights to Genoa on its annexation to Sardinia. Elsewhere, in Norway, in Spain, and in France itself, the Great Powers were understood to approve the grants of Constitutions which they and the Congress were not bound to guarantee.

That the Congress of Vienna was chargeable with shortcomings, omissions, mistakes, and failures; that some of its creations, like the union of Belgium and Holland, proved of very brief endurance, while others, like the Germanic Confederation, were more and more loudly decried; that the aspirations which its settlement failed to satisfy found vent in conflicts, in conspiracies, in insurrections from which no part of the period ending with the revolutionary outbreak of 1848 remained wholly free—all this is as true as it was inevitable. But to make the Congress of Vienna the scapegoat of the troubles which marred the general peace and prosperity of the next thirty years is to overlook several considerations. In the first place, the task of the Congress was limited by the terms of its commission, while it must in candour be allowed to have rendered substantial services to the extension of intercourse between European States and to the progress of human civilisation. Secondly, if the commission of the Congress was restricted, so was its real power. Amid the clash of divergent interests, compromise was the only alternative to coercion or war; and this was clearly seen by the representatives of the Great Powers who virtually controlled the situation. It was indeed no secret; Spain openly defied the Great Powers, of whom she would have fain been accounted one, to deprive her of Olivença; Aargau at one time declared that force alone

should compel her to return to subjection under Bern. How near the Great Powers came to an armed conflict among themselves has been seen from the brief account given above of the Saxo-Polish difficulty. The results actually attained by the Congress, or the Committee of the Great Powers which acted on its behalf, could only have been accomplished by means of patient argument, resourceful diplomacy, and a judicious display of firmness. Thus, while much of its success was due to the toil of the Humboldts and the Wessenbergs and of their indefatigable subordinates, some of the credit should in equity also be given to the magnanimous impulses of Alexander, the fairmindedness of the British plenipotentiaries, and above all to the tact of Metternich and his confidential adviser Gentz.

What the Congress, within such limits and restrictions, actually did achieve, was not only to restore a number of princes to the dominions formerly held by themselves or their dynasties, and to revive the independent existence of a number of States which had been subjected to an alien rule; to furnish fresh securities for the reorganised political system of Europe by instituting a federal union of the States of Germany, strengthening that of the cantons of Switzerland, and opening a prospect of constitutional life for a number of European peoples; to rescue a large and unfortunate section of humanity from the indefinite endurance of a cruel and wicked abuse; and to add not a few further provisions favourable to the principle of tolerance and to that of freer and more frequent intercourse between the nations. The Congress did more than this. It built up for Europe a territorial system, which had some doubtful points and some unmistakable defects, and for which permanency could not be hoped any more than for any other set of human devices. But the system itself was neither accidental in its main principles, nor altogether transitory in its main conditions. It re-established a real balance of power in Europe, if this expression be understood to mean that every security was provided against the violent disturbance of the peace of Europe by any *one* Power, or by any actually existing or probable combination of Powers. An augmented Austrian Empire, a stronger and more thoroughly German Prussia, and a Germanic Confederation whose conditions showed in some respects an unmistakable advance on those of the old Empire, furnished guarantees for the security of continental Europe against Russia as well as against France. The results achieved by the Congress may fairly be described as a settlement which, though open to many criticisms, and in many respects inadequate, on the whole fairly met both the commission that it had received, and the demands that could reasonably be made upon its efforts. The method which it exemplified in dealing with the affairs of Europe, though likewise full of imperfections, yet deserved to be called the best and most expeditious hitherto devised by her statesmen in the common interest of her peace.

CHAPTER XXII.

GREAT BRITAIN AND IRELAND (1792–1815).

THE year 1792 forms the dividing line between the earlier and later periods of Pitt's career. That France was in convulsions and Europe in commotion seemed to Pitt no reason why he should cease adding to the edifice of financial reform and commercial prosperity at which he had toiled uninterruptedly for the last decade. In introducing the Budget he found himself able to assist the Sinking Fund and to diminish taxation; and, in the conviction that fifteen years of peace might be reasonably expected, he reduced the vote for seamen, and allowed the subsidy treaty with Hesse-Cassel to expire. That his composure was undisturbed was further shown by his warm support of the Libel Bill. Erskine's plea that the jury had to determine the question of libel no less than the fact of publication had been adopted by Kenyon in 1789; and in 1791 Fox proposed to make this principle part of the law of the land. Considerable opposition was offered by Thurlow; but in 1792 the measure again passed the House of Commons unopposed, and was accepted by the Lords. Events in France had nevertheless begun to modify the grouping of parties. Many who were ready enough to suggest or support measures of political or religious emancipation in ordinary times deemed it unwise, in Windham's phrase, to repair their house in the hurricane season; while in other quarters the Revolution was interpreted as a warning of the perils that attended the delay of reform. Early in 1792 the more liberal element in the Opposition formed the Society of the Friends of the People, from which Fox, who cared little for parliamentary reform, stood aloof, though it was joined by his chief lieutenants. Grey was deputed to introduce the question of reform in the following year; but, when he gave notice of his intention, Pitt rose to express his belief that such an attempt could not safely be made at the present time. This declaration, uttered on the last day of April, 1792, may be taken to mark the transition from the remedial to the repressive period of Pitt's ministerial career.

The ultimate cause of this change was the Revolution in France;

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K ; # 6 6 " " * .

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W ' $. I & 8O # % + 'I 5 8

$< @<G4@4 <B' <5 0:" 25' 2' <@< ; C< '<5"4C0 59 2-'4' <-<2@?' '4?<4 ' 2' "9< ; B ' '"94"' 'KY)' 9< $ 2@<@94 <B'4"' "9<0 ; " " 25%42B' 45><B' <2G0<42B' <?' " '5:--<5"'4' <A0?' " ' "9< "9@ ; 2-'4BB <55' 642:4 ?% K KK£' <N:<5" 2-' 9 ;' " ' 455: ;< "9< <-<2@?)' 9< $ 2@<' 594 A0?' @ " @5<B' "9< ' 5:8<5" 25% 42B' 5:"" ;0 2<B' !9< B42% <' 20?' %9 -' = "9' =9 ;' 9< 94B' <;4 2<B' 2" ;4"<% " ' B 4=':A' 42 "9<' <A0?)' 9<' %9 -' (B5' =<' <2B -242"F' 42B' "9<' C <4@9' 4A B0?' = B<2<B)' 9<' B @" 5' <" 0B' "9<' / 2-J5 5A<<B?' <5" 2 4" 2F 42B' "9<' c:<<2' 455< "<B' "94"' 9 5' <@ G< ?' = :0B' C<' 6< A4 B 5<B' ' 9<' :2B' 2<=' 2 5"< 5' 2' @<)' # <0B 2-' " ' "9<' A <55: <% "9<' $ 2@<' 422 ; @<B' "94"' 9<' 59 :0B' ;4>< 2 ' 42-<F C:'" 4"' "9<' <2B' '"9<' ?<4 '9<' B<"< ; 2<B' " '5" <2-"9<2') "9<' G< 2;<2"') <2G00<' 42B' <?' <A0<B' = " 9' "9<' 24B ; 55 C0<' 5" A:04" 2' "94"' "9<?' 59 :0B' C<' 400 =<B' " ' - 42"' 4"9 0@<;42@ A4" 2' " ' <042B)' "' "9 5' ; ;<2"'%<00<50<?' <5 -2<B' 2' B 5-:5"' 4"' "9<' 04@>' ' 5:AA '' '"9<' $<2 25:04 '%4 % 42B' =45')5:@@<<B<B' C?' 45"0< <4-9F 42B' ! B ; :"9' C< <'0 2-' <2"< <B' "9<' 4C 2<")' $< @<G4@ 94B' 94 B0?' " ;<' " ' @ 2- 4":04"<' 9 ;5<0 ' 2' 9 5' <"<2" 2' ' @<' =9<2' 9<' =45' 455455 2m 4"<B' C?' 4' 0:24" @)' <- " 4" 25' %<' 4'" @<' <5:;<B)' %<00<50<?' 42B' 422 2-' <:5<B' " ' 5< G<' ="9' 45"0< <4-9% 42B' 4 0<B' " ' 4 42-<' "< ;5 ="9' <2G00<' 42B' <?)' 9<' %9 -'0) B5' "9<2' 4"'"<;A"<B' " ' ;' 4' 2 5" ?% C:'" 40<24"<B' 4% "9<' <2B' 42B' @ ;5<00 ' ' "9<' $ 2@<% C?' @04 ; 2-' <2" <' @ 2" 0' ' "9<' :5<9 0B' 4AA 2";<2"5)' 2' 4@<' "9<5<' B @:0" <5% "9<' <-<2'" <"4 2<B' "9<' 2 5" ?' 42B' 4AA 2"<B' (G< A 0' $;<' 2 5"< % <' 94B' 94B' 0 2-' @40' <DA< <2@<' 42B' A 55<55<B' @ ; 5 B< 4C0<' "4@"F C:'" 9<' =45' @9 5<2' ;<<0?' C<@4:5<' 9<' 5<<;<B' 0<45'" 0><0?' " ' B G B<' "9<' A4 "?F 42B' 8<' <40' 9<4B' ' "9<' 4C 2<'" =45' 45"0< <4-9% =9 '0<B' "9<' :5<' ;;25)' 9<' 4"9 0@' c:<5" 2' =45' <DA <550?' 0<'" A<2F C:"% "9 :-9' ' =! =% '1 '94B' 5<'" "9<' @ :2" ?' "9 2> 2-% "9<?' 94B' ;4B<' C:'" <='@ 2G< "5' 4'" %<5" ; 25"<)

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W ' / + , 3 8"2 , , 8 ; , ! 8< * ' ,
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=< <' ; 4B<8' "9<?' =< <' B : <' " ' 9 : ; 42<' < ; A0 ?< 5' 5 : @9' 45' C< '" =<2
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< ; A0 ?< 5F C : '" A 2 2' 2' $4 0 4 ; <2'" 42' 5" 2 -0?' 2' "9<' @ 2" 4 ?
B <@" 2(42B' 2 ' hB<G 4" 2 -' ; <45 : <5' 8< <' 2" B : @<B)0
5" <55' <4@9<B' "5' @0 ; 4D' 2' K KK (=9<2' "9<' 94 G<5"' 4 0<B' 400
G<' : A<)' 9<' 5 : < 2 -5' ' "9<' = >< 5' 2' @< "4 2' " 4B<5' =< <'
2"<25 <B' C?' "9<' 2" B : @" 2' ' ; 4@9 2< ?)' 2' K KK' "9<' 9 5 < 5' '
"" 2 - 94 ; ' =< <' <24C0<B' " ' B 5@94 -<' 4' 04 -<' 2 : ; C< ' ' = > ; <2)'
2' 4""4@>' 2' "9<' 4@" <5' 00 = <BF 42B' 2<=' ; 4B 2< ?' =45' B<5" ?<B'
C< <' "' <4 C<B' "9<' " = 2)' 9<' 4 ; < C <4>< 5' =< <' @400<B' (: BB "<5(
4 "< ' 42' ; C<@ 0<' = 9 ' 94B' ; < 0?' C ><2' 5 ; <' 5" @> 2 - 4 ; <5)' ' 04=' '
=45' 9 : <B' "9 : - 9' $4 0 4 ; <2'" <2B< 2 -' "9<' B<5" : Rg" 2' ' ; 4@9 2< ?
4'@4A "40 <2@<F C : '" "9<' ; G< ; <2'" 5A <4B' 4A B0?' "9 : - 9' "9<' B042B5)'
9<' ; 5'" - 0 : 5' A< B' ' 59' 4 ; 5' 4C 4B' =45' "9<' " ; <' ' "9<'
8 ' ; 5<0?' 4'" 9 ; <)
0 :<' 20?' =4?' 2' = 9 B ' < <@" G<' 4 B' =45' <2B< <B' " ' "9<' A< A0<'
B 2 2 -' "9<' <4@" 2' =45' 2' 84 B' " ' <B : @4" 2)' 2' KYW ' 4' ? : 2 -'
c : 4>< ' 24 ; <B' (42@45"< ' C<-42' " ' "<4@9' 4' <='A ' C ?5' 2' 4' 59<B' 2'
5 : "9' (2B 2)' <' 5 2' C4B' 5 ' ; 42?' A : A 05' "94'" 9<' 4B A"<B' 4' 5?5"< ; '
=9 @9' 94B' C<<2' 4AA0 <B' C?' ' <00' 2' 4B 45(C?' = 9 @9' @9 0B <2' =< <'
5<'" ' "<4@9' 2<' 42 "9<)' <' ; <B' 4' A042' ' @ G< 2 -' 2 -042B' = "9'
5@9 05F 42B' 2' K K ' 9 5' <2B5' 42B' 5 : AA "< 5(2@0 : B 2 -' 64 ; <5' 00(
: -94 ; ($04@<(-< 5(42B' 5<G< 40' 2@ 2 ; 5"5(@ <4"<B' "9<' ?40'
(42@45" 42' 55 @ 4" 2(= 9 @9' 2' K K ' C<@4 ; <' "9<' " 59' 42B' ' < -2'
! @9 0 ' ! @ <"?)' 9<' ; G< ; <2"(= 9 @9' =45' : 25<@"4 42(- <='5 '
4A B0?' "94'" 2' K KK' 4' 2 : ; C< ' ' 9 : @9 ; <2(: 2B< ' "9<' 0<4B< 59 A'
'6 59 : 4' %4"5 2(; <B' "9<' 4" 9240' ! @ <"?' ' "9<' <B : @4" 2' ' "9<'
A ' 2' "9<' A 2@ A0<5' ' "9<' 5"4C0 59<B' 9 : @9)' ?' "9<5<' G40'
-42 54" 25' <0< ; <2"4 ?' <B : @4" 2' 2' 2 -042B' =45' @4 <B' 2' " 00'
"9<' 2" B : @" 2' ' 4' 24" 240' 5?5"< ; ' 2' K Y)
&) 2' 2<' "9< ' B <@" 2' "9< <' =4!' A - <55' " ' C<' <@ B<B)' 9<'
@ ; 240' 04='=45' @ 2B< ; 2<B' C?' 2<4 0?' "B0' 2 -0 59' A 2 2)' ; m
A455 24"<' : <5' 4@N : ""<B' A 5 2< 5F 42B' <D" < ; <' 5<2"<2@<5' =< <'
4 <0?' @4 <B' : ")' :"' 0B 2' 42B' 00<2C : -9' 54='2 "9 2 -' " ' @942 -<F
42B' "' =45' = "9' "9<' : " ; 5"' B @ : 0"?' "94'" ; 00?' 5<@ : <B' 4' <B : @" 2'
2' "9<' 2 : ; C< ' ' @4A "40' <2@<5)' ' - <4"< ' ; A "42@<' =45' <'
4C 0 " 2' ' ; A 5 2 ; <2'" 'B<C")' 9<' 2 C0<' < "5' ' "9<' 94"@9<B'
: 5<' ! @ <"?' 94B' 5 : @@<<B<B' 2' C : ? 2 -' :"' "9 : 542B5' ' G @" ; 5F C : '"
'" =45' 2 '" " 00' <' <G 05' =< <' : 00?' <DA 5<B' 2' 4' <A '" B 4=2' : A' C?' <?'
"94'" 5 @" 2' =45' B<"< ; 2<B' 2)' 9<' B 5" 2@" 2' C<"=<<2' A G< "?' 42B'
@ ; <' =45' 4'" 045'" <@ -2 5<B' C?' "9<' @'" ' K K (=9 @9' B 5@94 -<B'
B<C" 5' 2' <2B< 2 -' 4' " :<' 4@@ : 2'" ' "9< ' B<C"5' 42B' A A<' "?(42B

A04@<B' "9< ;' :2B<' "9< : 5B @" 2' ' 4' : ") "' =45' 2' " < 54 ; < ?<4 ' "94'" 0 a4C<"9' ' ?' <5 0G<B' " ' @ 2" 2 :< =4 B15' = > ' 42B' A4 B' 9< ' 5"'G 5 '" " ' <= -4"<)

% < ": 2' 2 =' " ' "0 < 4 4 5' ' <042B& = "9' =9 @9& ' "9< 54>< ' @0<4 2<55& "' 945' 9<<2' "9 : -9'" C<"'"< ' "<B<40' 58H4 4"<0?) 9< N:<5" 2' 94B' "9 =2' 59' A 0 " @5' 2" ' @ 2 :5 2F' C :"& = "9' "9< <@ G< ?' ' "9< / 2-' 2' ' <C :4 ?& KY W& "9< B ; 2 5" 4" 2' <-4 2<B' "5' A =<) ' "8CC 2& "9< "" 2<? <2< 40& =9 ' 94B' 9 ; < " < C :2'" ' "9< 5" : - -0<& <@< G<B' 4' A<< 4-<& 42B' 59 "0?' 4 "< '5 :@@<<B<B' " '"9< 942@<00 m 59 A) $ ""'9 A<B' "94'" "9< "< ; 24" 2' '"9< B 5A :"< 42B' "9< = "9B 4=40 ' :@> 2-94 ;' = : B' 0<4B' " ' N: <"< ' " ; <5F' C :"& = "9 2' 4' <=' B4?5' "9< @< ?15' B<A4 ": <& "9< %9 -' 0:C' =45' :2B<B' " ' ; 4 2"4 2' "9< A 2@ A0<5' <2 :2@ 4"<B' 2' "9< <-<2@?' B<C4"<5) ; 2-' "5' ; < 2C ; 4' =< < 94 0< ; 2"& "9< :>< ' (< 25"< & 4""42& $4 5 25& 42B' < -< 42B' % 00 4 ;' $ 25 2C?) 9 :-9' 2 '" 4' <=' =< < 2B G B:400?' 2' 4G :' ' A4 0 4 ; <2"4 ?' < ;' 42B' 4"9 0 @' < ; 42@ A4" 2& "9< @0:C' 2' "5' @ m A 4"< @4A4@ "?' =45' 4' B< <25 G< 4"9 =' "942' 4-- <55 G< -42 54" 2& B< ; 42B 2-' 2 "9 2-' ; < <G 0:" 24 ?' "942' $04@< 42B' $<25 2' 005' 42B' "9< <B:@" 2' ' 5 2<@: <5) 9<@4? 2-' 2<<B5' ' <042B' :2B' 2 ' A04@< 2' "5' A - 4 ; ; <F' 42B' '" =45' "A' "9 5< 2<<B5' "94'" "9< ; < 4BG42@<B' ; < ; C<8' @400<B' 4""<2" 2' =9<2& 2' 642:4 ?& KYW & "9< 2<=' @< ?& (B' %<5" ; 042B& 4 G<B& 42B' $4 0 4 ; <2'" 455< ; C0<B)

9< 2"< <5'" 2' A 0 " @40' B 5@:55 2' "94'" 94B' C<<2' > 2B0<B' C?' "9< <-<2@?' B<C4"<5' %45' : "9< ' 5" ; :04"<B' C?' "9< <G<2"5' "94'" =< < "4> 2-' A04@< 2' 42@<) <0 - :5' B 54C 0 " <5' 42B' "9< " "9< !?5"< ; 3 "9A' "= ' ; 5'" 4@:"<0? <0'" - <G42@<5' ; B< ' =9 @9' 59' 4"9 0 @5' 04C : <B D B ' ; " -4"<B' C?' "9< 5'"C <4"9' '"9< <G 0:" 2F' 42B' "9< <G 0'" '4' A< A0< 4-4 25'" ; 5- G< 2 ; <2'" =45' G <=<B' C?' "9< $ <5C?"< 425' = "9' "9< 54 ; < 4AA G40 "94'" "9<?' 94B' <D"<2B<B' " '"9< :A 5 2-' '"9< ; < @42' @ 0 2 <5) 9< 0:2"<< 5' = < : -<B' " ' < 00' "9< ' 42>5F' 42B' <5 0:" 25' =< < A455<B' <:0 - 5 2-' "9< ; <45: <5' '"9< ' <2@9' < ; < 5) %9<2' $4 0 4m ; <2'" ; <'" 2' 642:4 ?& KYWK& <G< ? 2< =45' @ 25@ :5' "94'" A 2 2' =45' @942- 2-F' C :'" ; " 25' ' <2N: ?' =< < B< <4"<B& 42B' 4' 59 '" 5<55 2' "< ; 24"<B' = "9 :'" 4BB " 25' " ' "9< 5"4" :"< C >) 9< CG :5' :" 0 "?' ' 6 <@'" A4 0 4 ; <2"4 ?' 4""4@>' 5<'" <4 2<5'" < ; < 5' 5<4 @9 2-' ' "9< ' ; B<5' ' 2 0:<2@ 2-' "9< G< 2 ; <2") 9< 0:2"<< ' ; G< ; <2'" 94B' C<<2' A: <0?' 42B' <G<2' ; 0 "42"0?' $ "<5"42'"F' C :'" "9< 5"<4B?' B<@0 2< ' <0 - :5' C - " ?' 4 ; 2-' "9< <B:@4"<B' @0455<5& < 0<@"<B' 2' ; <2' 5 ' < ; 2<2'" 45' "9< 59 A' ' < ?' <0?' :"@9 25 2& 42B' / =42& 4@ 0 "4"<B' @ m A< 4" 2) 2' 6:0?' "9< <0 45'" @<0<C 4" 2' ' "9< 422 G< 54 ?' ' "9< 400 ' "9< 45" 00< =45' 5 -240 5<B' C?' "9< B< ; 42B' ' < ; 42@ A4" 2' 45' =<00 45' < ;) 9< 4@>2 =0<B- ; <2'" C?' 5 ; < 4"9 0 @' C B <5' '4' <5 0:" 2' 2' 4G :' ' "9< 4C 0 " 2' ' <0 - :5' B 54C 0 " <5' ; 4 >5' "9< 5'" G< '" 5"<A' " =4 B5' "9< 2 2' '$ <5C?"< 425' 42B' 4"9 0 @5)

) x x) 0

KYWK _ + $ = $ +3 ? , .5 ' 3 W

2< "9< ; 5" < <@" G< C :0=4 >54-4 25" "9< 2 :59 "9< <G 0:" 24 ?
0 B 3 4 @ 2G @" 2 5< " "9 = "9 ; 4"@90<55 A =< C? : >< 2 9 5
1 6 O 1 K < < "9< B8 "4" 2 <4R9<B (2B 2
"9< 4C 2<" 94B @@ : A <B "5<0 = "9 "9< ; 4""< F 42B 2 <@< ; C< KYWK
%<5" ; <042B =45 2 ; <B "94" 8 <4@9 2 - @ 2@<55 2 =45 @ 25 ; > <B
2B 5A<254%<) 9< @< ? <A0 <B 42 - 0? "94" 9 5 4BG 5< 5 = <
" ; 42 ; :50? AA 5<B " 5 :@9 4 B<A4 " : < 5 2@< "9< @@ ; 2<D " ;
2-042B = "9 <042B <5"<B -& "9< :2 ; A4 <B ; 4 2"<242@< "9<
$ "<5"42" 45@<2B42@?) $ "" @ 25<2"<B " A 5"AR ; < 9 5 04 -< 5@9< ; <5
C : 2 ; <B "9< @< ? "94" "9<? %< < 2 4C42B 2<B) 9< 2" m
B : @" 2 4 ; B<5" <0 < 00 9 "9< 5<55 2 KYW -4G< 5< " 0 ""0<
B <@" AA 5 " 2) 9< ; <45 : < A<2<B " 4"9 0 @5 "9< 0 = < C 42@9<5
"9< 0<-40 A <55 2 <A<40<B "9< 04=5 0 ; " 2- "9< 2 : ; C< 4AA <2" @<5 42B <04" 2- " ; 4 4-< = "9 $ "<5"42"5 42B < ; G<B "9<
C5 0<" < A 9 C " 2 4-4 25" <B : @4" 2- "9< @9 0B <2 4C 4B)
9< @< ? 2 ; <B "9< 4C 2<" "94" "9< 4"9 0 @5 =< < - 4"< : 0
42B 54" 5 <B 42B "94" "9< @ : 2" ? =45 " 42N : 0 C : " "9< <G<2"5 "94"
@@ : <B B : 2- "9< <@<55 A 2"<B " 4 0<55 542- : 2< @ 2@0 : 5 2)
0 : 2"<< 5 <0 45" 5<2" 42 4BB <55 " "9< ' <2@9 24" 2 2 "9<
422 G< 54 ? "9< 400 "9< 45" 00<) 2 : C0 2 4 ; 0 "4 ? 455 @ 4" 2
; B<00<B 2 "9< 4" 240 : 4 B5 4B A"<B 45 "9< < ; C0< ; "9< 94 A
= "9 : " 4 @ =2 5 : ; : 2"<B C? 9< @4A 0 C< "?) 9 5 G< " ; 42 m
<5"4" 2 <A : C0 @42 5 ; =45 00 =<B C? "9< 8 <4B " ' <2@9 459 25
42B 94 0< ; 2" 04 ; <2"<B "94" " < 0 : 2"<< 5 94B 0 2- @<45<B " 45> 9 5
4BG @<) 0 9< 4"9 0 @ ; ; ""<< <A04@<B @94 B : >< C? 2<9
4" 2@< 55 : <B 2G "4" 25 " <G ? A <5" " <0<@" B<0<-4"<5 " 4 4"9 0 @
2G<2" 2) 2 <@< ; C< KYW8 9< : C0 2 2 "<B 59 ; <2 2G "<B
"9< 0 : 2"<< 5 " <5 : ; < "9< 4 ; 5 42B <5 0G<B "94" 4 B<A : "4" 2
59 : 0B C< 5<2" " "9< "9@ ; 2- 2G<2" 2) ! "9 <4"<2 2- =45 "9<
: "0 > "94" 4""42 ; <B 4 5 @ <"? @400<B "9< ' <2B5 "9< 25" m
" : " 2 = "9 "9< B : 40 A : A 5< = > 2- < ; 5 =9 @9 "9< % 9 -
@0 : C5 = : 0B 2 " @ 400? <@ ; ; <2B42B <5 5" 2- <A : C0 @42 "<2B<2@ <5)
9< < =45 9 =<G< 4" A <5<2" 0 ""0< <40 B 54 <@" 2 4 ; 2- "9< 4"9 0 @5
: "5 B< : C0 2) 9< A <04"<5 "9< A <5"5 "9< -<2" ?42B "9< A<4542" ?
=< < 40 ; 5" : 2" : @9<B 42B =9<2 "9< 4"9 0 @ 2G<2" 2 ; <" 2
<@< ; C< <G<2" "9< @< ? 4B ; ""<B "9< 0 ?40"?" 42B ; B< 4" 2
"5 @ 2B : @")) A<" " 2 " "9< / 2- "9< < ; G40 4"9 0 @ B 5m
4C 0 " <5 =45 B 4=2 : A 42B / < -9 42B : 9 5 @ 00<4- : <5 =< <
B<A : "<B " A <5<2" ")) $ "" 42B : 2B45 4" "9 5 A 2" 2 ; <B "9<
@< ? "94" "9< @ 2@<55 25 =9 @9 "9<? 94B A 5"A 2<B ; : 5" 2 =C<
- 22"<B) 9< B<A : "4" 2 =< < - 4@ : 50? <@< G<B 4" : "F 42B 2 "9<
/ 2-J5 ! A<<@9 4" "9< A<2 2- "9< 59 $4 0 4 ; <2" 2 642 : 4 ?KYW
"9< @ 2B " 2 [5 4 <5"?J5 4"9 0 @5 : C <@"5 \ 2 0 2-< [$4A 5"5 \
=45 @ ; ; <2B<B " "9< 4"" <2" 2 ; < ; C< 5)
9< D<@ : " G< =45 "9< ; ; "9A <@<)) "9< 2-0 59 4C 2<"F 42B " 9<
) DD2)

W " ' + . + ' I

<' ! <@ <"4 ?' 2" B : @<B' 42B' @4 <B' 4' <0 < ' 00' = 9 B ' "9<' 59'
G< ; ; 8 '" 94B' 2' "9<' A <G :5' ?<4 ' 455 : <B' $ ""' = : 0B' 94G<' 2 ' @942@<'
'A455 2 -)' "' -4G<' "9<' 42@9 5<' " ' 4"9 0 @5' 2' <D4@"0?' "9<' 54 ; <' "< ; 5
45' " ' $ "<5"42"5% 5=<A"' 4=4?' "9<' < ; : 2 9 -' B 54C 0 " <5' <04" 2 -' " '
A A< "?% 4B ; ""<B' "9< ; ' " ' - 42B' : <5% 400 =<B' "9< ; ' " ' C<@ ; <' ; 4 - m
5" 4"<5% "9 <=' A<2' " '"9< ; 'B<- <<5' 2' : C0 2' 2 G< 5 "?% A< ; ""<B' "9< ; %
5 : C <@"' " ' 1' A A< "?' N : 40 @4" 2% " ' @4 ?' 4 ; 5% 5 ; B' <2B< <B' "9< ; '
<0 - C0<' " ' <@< G<' @ ; ; 55 25' 2' "9<' 4 ; ?' 4 ; B' 24G?% 42B' " ' 9 0B% = "9' 4'
<=' <D@<A" 25% 42?' @ G 0' @<)' 4""42' G<9< ; <2"0?' : -<B' "9<' G< 2m
; <2"' " ' @ ; A0<"<' "9< ' = >' C?' 4B ; "" 2 -' 4"9 0 @5' " ' $4 0 4 ; <2"%
A 2" 2 -' : '" "94"' " ' - G<' A =< ' " ' "9<' A<4542" ?' 42B' = "99 0B' A 0 " @40'
2 0 : <2@<' ; ' "9<' - <2" ?' =45' " ' 5>' B<"4@9 2 -' "9<' A< A0<' ; ' "9< '
24": 40' 0<4B< 5% =9 5<' 0 ?40"?' =45' 4C G<' 5 : 5A @ 2F' C : '" $ "'" 94B' 2 '
; 2B' " ' <2<=' 9 5' 5" : - -0<' = "9' "9<' 59' D<@ : " G<)' G<2' = "9 : '" "9 5'
4BB " 2% "9<' 4"9 0 @5' - 4 2<B' 4' A 5 " 2' 5 : A< ' " ' "94"' @@ : A <B' C?'
"9< ; ' ' C?' $ "<5"42"' 2@ 2 ; 5"5' 2' 2 -042B)' "' 945' C<<2' <5" m
; 4"<B' "94"' "9<' 2 : ; C< ' ' ! <@" 5' 2' B42B' =45' " A0<BF' 42B' 4"9 0 @'
G " ; 5' C"4 2<B' 4' @0<4 ' ; 4 "?' ' G "<5' 2' "9<' : 40' @ 25" " : <2@ <5' : "m
5 B<' 05"< ' 42B' 2' ; 42?' ' "9<' A<2' " =25)' 2' "9<' "9< ' 942B% "9<'
A G4"<' C : - 9' 5?5"< ; ' =45' ; 4 ' <@"<BF' 42B' "9<' $ "<5"42"' 45@<2B42@?'
< ; ; 2<B' ; A <- 24C0?' <2" <2@9<B' C<9 2B' "9<' 2 ; 24" 2' ; < ; C< 5% =9 '
; <B' 4' ; 4 "?' ' "9<' : 5<' ' ; ; 25)
: 2 -' "9<' 54 ; <' 5<55 2' "9<' G< 2 ; <2"' 4@@<A"<B' 4' $04@<' 00% <Dm
@0 : B 2 -' <G<2 : <' @< 5' 42B' 9 0B< 5' ' @<5' @ <4 "<' 4 "< ' "9<' A455 2 -' '
"9<' 00' ; ' 5 "" 2 -' 2' $4 0 4 ; <2"% 42B' ; 4B<' < 0<@" 2' 2<@<554 ?' 2' "9<'
@45<' ' ; < ; C< 5' 4@@<A" 2 -' A04@<5' ' A '" 40 <4B?' 2' <D 5"<2@<)' 9<'
2 -0 59' (C<0' @"' =45' 4B A"<BF' 42' AA A 4" 2' 00' 2' "9<' 2 -0 59'
; B<0' C<@4 ; <' 04 = F' 42B' "9<' 45"' 2B 4' " 4B<' =45' "9 =2' A<2' " ' <042B)'
9<' 0 : 2"<< 5' =< <' 5 : AA <55<B' 2' 4 @9F' 42B' 4' 2G<2" 2' @"' =45'
A455<B' " ' @9<@>' "9<' A 4@" @<' = 9 @9' 94B' - =2' : A' ' 5 : ; ; 2 2 -' 04 -<'
455< ; C0 <5' 2B<A<2B<2" ' $4 0 4 ; <2"F' % "9 : -9' "9<' 4"9 0 @' 2G<2m
" 2' 94B' B 55 0G<B' "5<0 ' 2' "9<' A4554-<' ' "9<' <0 < ' 00% "9<' 2 "<B'
59 ; <2' =< <' A0422 2 -' 4' 5 ; 04 ' -4"9< 2 -)' 9<' 0 2 -<5"% ; 5"' <G<2" : 0%
42B' ; 5"' A "4C0<' 5<55 2' 5 2@<' KY ' B 8 ' 2' : - : 5"% KYW)
: "5 B<' A4 0 4 ; <2"% 9 =<G< % "9<' 9 a 2' =45' G< @45")' 4""42.5
5 : AA '" ' "9<' =4 ' @ ; A0<"<B' "9<' C <4@9' C<"=<<2' "9<' % 9 -5' 42B' "9<'
4B @40' < ; < 5)' 9<' 422 : 40' ! ?2 B' ' 05"< ' $ <5C?"< 425' <DA <55<B'
"5' 4AA G40' ' "9<' <0 < ' 00' 42B' "5' B 50 >' ' "9<' =4)' N : 400?'
"9 <4"<2 2 -' =45' "9<' 4"" " : B<' ' "9<' 4"9 0 @' A<4542" ?' 2' @< "4 2'
B 5" @"5)' 9<' N : 4 B5' ' "9<' $<<A 4?' ?5' 42B' "9<' < <2B< 5'
94B' - 24"<B' 4C : '" KY ' 2' ; 4 - 9% =9< <' "9<' A < ' $ <5C?"< 425'
= <@><B' "9<' 9 : 5<5' 42B' @94A<05' ' 4"9 0 @5)' 2' KYWK ' "9<' B 5" : C42@<5'
C<@4 ; <' 5 ' - <2< 40' "94"' <4 0?' 2' KYW ' 4' ; ; ""<<' ' "9<' : 5<' '
(B5' =45' 4AA 2"<B' " ' 2G<5" - 4"<' "9<' ; 4""<)' 9<' <A '" 59 =<B' "94"'
"9<' < <2B< 5' 94B' C<@ ; <' 4' 5<@ <"' - 42 54" 2% = 9 5<' @9 < ' C <@"' =45

"9< 4C 0 " 2 " "9<5F -& "94 "9 : -9 "9 5 942240 ; 42? "9< 4"9 0 @ A<4542" ?= < < A455 2 - 2" "9< 42>5 B54 <@" " ;)
9< @9 < <4": < "9<5<55 2 KYWZ =45 4 0< 29 00& 2" B : @<B C? < -< $ 25 2C? 42B 5 : AA "<B C? 4""42) 4@9 @ : 2"?& 42B "9< @ " <5 : C0 2 42B >& =< < " 94G< 4 "9 B ; < ; C< F 42B 04 -< " 4@"5 "9< 5 ; : 2B 2 - @ : 2" ?= < < " C< "9 =2 2" "9< 5 ; 400 C : -9 @ 25" " : <2@ <5& "9< 42@9 5< C< 2 - <D"<2B<B " "<2 A : 2B <<9 0B< 5) : " "9< ; <45 : < 4 : 5<B 0 ""0< 2 "< 2 "& 42B =45& < <@"<B C? 4 ; 4 "? "9 <" " 2<) $4 0 4 ; <2" =45 A - : <B 2 4 @9F 42B "9< 4""<2" 2 "9< G< 2 ; ; " =45 4" 2@< @400<B " "9< 2 "<B BC 2<2) 2 2 - 0 @42 @0< -? ; 42 0 =@94 4@"< & 24 ; <B 64@>5 2& =9 94B 0 2 - <5 B<B 2 $4 5& =45 5<2" C? "9< ' <2@9 G< 2 ; <2" " B 5@ G< =94" 5 : AA " "9< ! " 0 59 B< ; @ 4"5 =< < 0 ><0? " <2B< 2 @45< 42 2G45 2) ' 2B 2 - 2 <2@ : 4-< ; <2" 2 2 - 042B& 64@>5 2 @ 55<B " : C0 2& "4> 2 - = "9 9 ; 42 4@N : 4 2"42@< =9 5<@ <"0? <A "<B 9 5 B 2 - 5 " "9< G< 2 ; <2") "" 64@>5 2 5 <N : <5") 2< B <= : A 4 A4A< 2 "9< 5"4"< <042BF C : " "9< B @ : ; <2" =9 @9 =45 B<5" 2<B $4 5 : 2B "5 =4? " "9< 45"0<) 64@>5 2 =45 ; A 5 2<BF 42B "9< 2 "<B 59 ; <2 =< < 2 @ 25"< 24" 2) 2< =45 400 =<B " - 2" <D 0< 2 "9< 2 "<B ! "4"<5& C : " =45 @ ; A8<B " 0<4G< C<9 2B 9 ; 42 4@@ : 2" 9 5 <04" 25 = "9 64@>5 2& =9 B" = : 0B 5< G< " @ 2G @" 9 ; " <45 2 9< <" : 2<B) 9< : C0 2 ! @ <"? 2 "<B 59 =45 C ><2 : A& 42B "5 A4A< 5 =< < 5< a<B)
9< : 2@" 2 "9< B 55<2" <2" % 9 -5 = "9 $ "" 2 KYWZ : 59< <B 2 2< "9< ; 45" ; A "42" <A 5 B<5 2 59 9 5" ?) 9< % 9 -5 : 2B< m 5" B "94" $ "042B& "9< ; < ! <@ <"4 ?& =45 " 94G< "9< @9 < B <@" 2 59 4 4 5F 42B "9< G @< ?40"?= =45 < <B " 42B 4@@<A"<B C? "a= 00 4 ; & 2 "9< : 2B< 5"42B 2 - "94" "9< 4AA 2" ; <2" 59 : 0B 2 " 4>< < <@" " %<5" ; <042B <@< G<B 5 ; < "9 8 A 5") "a= 00 4 ; 4" 2@< C<-42 " ; 4><4 42 - < ; <2"5 "4> 2 - @<& 42B " 0B 4""42 "94" 9< 0 ><B " 9 ; 42B 9< $ 25 C?5 @ : 25<0 42B 5 : AA ") 9< 4AA 2" m ; <2"& 42B "9< @942 - < A 0 @?" "94" "" 4AA<4 <B " <594B =& 5 2 C<@4 ; < >2 =2 2 <042B) $ "" 42B <2G 00<& 2 0<4 2 2 - ; "9< 59 <2B5 "94" "9< < =45 A<2 "40> 4@942 - < 2 ; <2 42B ; <45 : <5& =< < B<<A0? 422 ?<BF 42B& =9<2 $ "042B : - <B "94" ' "a= 00 4 ; J5 4AA 2" ; <2" 59 : 0B "4>< < <@"& "9< <04" 25 C<"=<<2 $ "" 42B 9 5 % 9 - @ 00<4 - : <5 C<@4 ; < 5< : 50? 5" 4 2<B) $ "" <A<4"<B "94" 2 "9 2 - @ : 0B C< B 2< " 00 4 A04@< 94B C<<2 : 2B 9 %<5" ; <042B& 42B "94" "9< < ; G40 ' "a- CC 2& =9 @9 =45 B< ; 42B<B C? 4""42& =45 2 " C< <2"< "4 2<B) " = : 0B C< C<5"& 9< = "< 2 4 ; < ; 42B : ; & "94" ' "a= 00 4 ; 59 : 0B 2 " - " <042BF C : "& 2 42? @45<& 9 5 4AA 2" ; <2" ; : 5" C< 2 "9< : 2B< 5"42B 2 - "94" 400 B<4 4 @942 - < 5?5"< ; 59 : 0B C< - G<2 : A& 42B "94" 2 5 : AA "< 5 "9< G< 2 ; <2" 59 : 0B C< B 5A04@<B)
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Y 7 . ' " ! ') ' 5KYWU8Y

B<0 -9'" 42B' B5<=9< <' = "9' @ 25"< 24" 2)' "' =45' "4><2' 45' /' B< 2 "<
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A 0@?)' : '" 4 ; B<2' =45' /' @ 0 : 0<55' A< 5 240 "?F' 42B' 59' A 0 " @5'
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5'" 42-<' ! @ <"?' =45' : 2B<B)' ' ' 4' " ; <' "9<' 2<=' -42 54" 2' =45'
2 "9 2-' ; <' "942' 4' 0<4- : <' 'B< <2@<& 40 ; 5'" @ 2 2<B' " '"9<' $ "<5"42'"
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2' =9 @9' "9<' "= ' <0 - 25' = : 0B' -9'" 5 B<' C?' 5 B<)
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C?' ; 2-' 4' ; 0 "4 ?' -42 54" 2' 42B' B< 2-' "9< ' ; < ; C< 5' " '
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; ; <"& 4' 04=?< & 42B' % 00 4 ; ' 64 ; <5' 4@ <?<2& 4' A9?5 @ 42& 42B' 4'
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; 4 " 40' 04=' 2' 05"< F' 42B' "9<' 5<4 @9' ' 4 ; 5' 0<B' " ' 9 C0<' : " 4-<5'
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=9 ' A A 5<B' 4' 4 <4@9 2-' < ; ' 00& 4B ; "" 2-' 4"9 0@5' " ' $4 0 4m
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)6)% F / 4 * +5 , ! %%)

<=" "9< 5& 9< <" <B ; $4 0 4 ; <2"& <" B 54AA G<B C "9 "9<
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; A 5< 4 @9<@> 2 ; 0 "4 ?" G 0<2@< =< < ; 4B< C?" $4 5 25& : 59<& 42B
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@4A" : <B 2 "9< A4 "5 "9<@ "?) 2 4 @9 ; 4 " 40 04 =" 42B <<
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' "a-< 40B& =9 94B 5< G<B 2 "9< ; < @42 %4 42B 94B C<<2 <DA<00<B
; "9< 4 ; ? 4""<2B 2 -4 B 22< - G<2 2 $4 5 2 KYW " @<0<C 4"<
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42B 5< a<B 4 "< 4 B<5A< 4"< <5 5"42@<& 2 =9 @9 9< <@< G<B = : 2B5
=9 @9 9< B <B) = B4?5 04"< <2 ?" 42B 6 92 !9<4 <5& =9 94B
455 ; 28 "9< B <@" 2 4 "< "9< 4 <5"" "9< (< 25"< ; ; ""<<& =< <
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4?" F 42B 2<D"" B4?" "9< A<4542"5 -4"9< <B 2 4 ; 5 2 "9< @ : 2" <5
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42B c : <<2J5 : 2"?) 9< 5 2 - 2 "9< 2 "9 =45 5A<<B 0?" N : <00<BF C : "
"" 04 ; <B : "" 2 "9< 5 : "9 (< 25"< & =9< < "" =45 2 "" <DA<@"<B) 2
%<D B "9< <C<05 : 2B 0<4B< 5 2 ' 4"9< : A9?& ' 4"9< @9<& 42B
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4 @< K & ; <2& =9 @9 4A B0?" 5=<00<B " U &) 9< <C<>
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Y ' # ' * , ; . < ' ' ' I YW

8@4 ; A ; <2'" 2' 284 ' 00% 42B' <2"< <B' %<D B)' 9<' <C<00 2' 4 0<B' C<@4 : 5<' "9< <' =45' 2 ' <40' 94 ; 2?' ' 4 ; ' C<"=<<2' "9<' $ "<5"42'" 42B' 4"9 0 @' ; 40@ 2"<2"5)' 9<' ' "<59 ; "5' <40 5<B' "94"% ' '" 5 : @@<<B<B% "9<?' = : 0B' C<@ ; <' 42' 2@ 25 B< 4C0<' ; 2 "?' 2' 4' 4"9 0 @' 42B' 2B<m A<2B<2'" <042B'F 42B' 0 <' <D@<55<5' ' "9<' <C<05' -4G<' "9<' 5 2 -' "9<' @94 4@"< ' R ' 4' <0 - : 5' =4)' 9 : 5' "9<' - <4"5' A4 '" ' 05"< ' 5" B' 40)' 224 : -9'" 42B' : 25"< ' < ; 4 2<B' " 42N : 0F 42B' "9<' A <5"5% = "9' 5 ; <' 2 "4C0<' <D@<A" 25% " >' 2 ' 594 <' 2' "9<' <C<00 2)

2' "9<' : "C <4>' ' "9<' <G 0"% 2=400 5' =45' 2B : @<B' " ' 4@@<A'" "9<' G @< ?40"?% @ ; C 2<B' = "9' ; 0 "4 ?' @ 2" 0)' %9<2' 9<' 042B<B' 2' 6 : 2<' % "9<' <C<00 2' =45' 40 ; 5'" G< % C : '" A455 2' =45' : 22 2 -' 9 -9)' 5' 0<""< 5' 0 ; <: '" "9<' 8 @ "?' ' "0 <' " A5F 42B' 9<' B<5@ C<5' "9<' @ 2G< 54" 2' 4'" 9 5' "4)C0<' 45' " ; 2 : -' 2' 942 - 2 -% 59 " 2 -% 42B' C : 2 2 -)' <' 5" B' : '" C 0B0?' ' @0< ; <2@?% 42B' 5 : @@<<B<B' 2' 5 ; <' B<- <<' 2' 5"< ; ; 2 -' "9<' " B<' ' G<2 -<42@<)' ' <=' ' "9<' <C<05' =< <' <D<@ : "<B' 42B' 4' <=' " 425A "<BF C : '" "9<' ; 4 "?' =< <' B0 =<B' " ' <" : 2' " ' "9< ' 9 ; <5)' 9<' ! 9<4 <5' =< <' B< <2B<B' C?' : " 42% C : '" =< <' 942 -<B' 2' 6 : 0?' KZ)' 9 ; 45' e ; ; <'"*' "9 : ' J 22 % 42B' 4@ <G<2' @ 25<2"<B' " ' - G<' 2 ; 4" 2' 45' " ' "9<' ; G< ; <2"% 2' @ 2B " 2' ' C< 2 -' 400 =<B' " ' - ' 2" ' <D 0<)' ! @4 @<0?' =45' "9<' 25 : <@" 2' G< ' =9<2' : ; C< "% = "9' 4' ' <2@9' @<% 042B<B' 2' / 00404F C : '" C<' 5 2' 5 : <2B< <B' " ' G< =9<0 ; 2 -' @<5)' ' 04 -< ' ' <2@9' <DA<B " 2' 5"4 "<B' 2' @" C< % =9 @9' 405 ' ; 0<B)' 2<% =9 ' 94B' 4@@ ; A42 <B' "% =45' "4><2' A 5 2< ' 42B' @ 2B< ; 2<B' C?' @ : " ; 4 " 40% C : '" @ ; ; ""<B' 5 : @ B<' 2' A 5 2)' 00' "9<' : 2B< ' ' "9<' 2 "<B' 59 ; <2% "9<' 4C0<5'" <' ' "9<' 2 -0 59' @ 22<D 2% =45' B<4B% "9<' B42 -< ' @ BB' 2 '" C<' 54 B' " ' C<' 45") 9<' <C<00 2' 42B' <' 2G45 25' " : 2<B' ; <2J5 "9 : -9"5' 2@<' ; <' " ' "9<' B<4' ' 4' 2 2' 9<' 0<- 504" : <5' 94B' C<<2' @ ; C 2<B' C?' ; =<00F 42B' 4' 2 2' =45' B< ; 42B<B' C?' C "9' 59' : 5<5' : 2B< ' 8 << 2 ' 22<)' B4 ; ' ! ; "9' 4BG @4"<B' '" 2' @ 2 : 2@" 2' = "9' << " 4B<F 42B' 2"<5N : <: ' <DA <55<B' " ' 94 0< ; 9'" 9 5' 4AA G40' ' "9<' B<4)' G< ?' 0 G 2 -' <D @< ?' <D@<A'" ' "a= 00 4 ; ' 94B' 0 2 -' = 59<B' ' ")' 2' "9<' "9< ' 942B% "9<' - ="9' ' 24" 240' 5<2" ; <2'" 94B' @942 -<B' "9<' A 2 2' ' 59 ; <2)' "9 : ' # : 2 -' : 2B' "9<' A <@'" 9 -90?' : 2A A : 04 F 42B' "9<' B<C4"<5' 2' "9<' @ ; ; < @ 40' A A 5 " 25' 42B' "9<' <-<2@?' A G<B' "94'" "9<' $4 0 4 ; <2'" =45' <40 : 5' ' "9<' 50 -9"<5'" 2 2 -< ; <2'" ' "9<' 5<""0< ; <2'" ' KY)' '" =45' 2 '" " 00' "9<' <0 < ' 00' ' KY ' "94'" "9<' B<4' C<-42' " ' 2B' 5 : AA '" = "9' "9<' @94 ; A 25' ' "9<' 28 59' @ 2m 2<D 2)' 9<' B 5A : "< = "9' ' "a= 00 4 ; ' 5" <2 -"9<2<B' $ ""J5' 2@0 24" 2' ' 4' 2 2F C : '" '" =45' 2 '" " 00' 4 "< ' "9<' <C<00 2' "94'" 9<' @4 ; < " ' <-4 B' '" 45' <55<2" 40' " ' "9<' A <5< G4" 2' ' "9<' ; A <)' ! ' <4 0?' 45' 6 : 2<% KYW % 9<' =45' 5" : B? 2 -' "9<' ! @ "" 59' @'" ' 2 2' = "9' <2G 00<F 42B' : @>042BJ5' 4BG @<' =45' 45><B' 2' <-4 B' " ' "9<' @ ; ; < @ 40' 2B' 242 40' 5<""0< ; <2")' 2=400 5' 4AA G<B' "9<' A A 540F 42B' 45"0< <4 -9% =9 ' 94B' 04"<0?' C<<2' 4AA 2"<B' 9 < ' ! <@ <"4 ?% C<@4 ; <' "5' 5" 2 -<5'" 4BG @4"<)

2B' 45"0< <4-9' p UE 4 2<B' "9<' B<"4 05' '"9<' 7 /H7H 4)) 9<' B<C"5' 42B' "4D4" 2' =< <' " ' 8 4 0' 5<A4 4"<F' 42B' <042B' =45' " ' A4?' "= 8 <2 ' "<<2"95' " ' ; A< 40' <DA<2B " : <)' 9<' @ ; ; < < 40' B4 : 5<5' =< <' ; <BB0<B' 2' "9 5<' ' KY U)' 9 : -9' 2 "9 2-' =45' A ; 5<B&"9<' 9 < ' !<@a<"4D?' 9 2"<B' "94'" 42' 4 ; ; -< ; <2'" ' C "9' 4"9 0@' 42B' B 55<2" 2-' B - ?' =45' : 2B< ' @ 25 B ; 4" 2)' = ' 9 : 2B <B' 5<4"5' = ; <' " ' C<' <D" 2- : 59<B&42B' <042B' ; 5' " ' C<' <A <5<2"<B' C?' 2<' 9 : 2B <B' ; < ; C<"5 8"9<' @ : 2" <5' " ' <" : 2' 5 D"? : & : C0 2' 42B' >' "= ' <4@9&"9 "? 2<' "9< ' " =25' 42B' : C0 2' 2 G< 5 "?' 2<' <4@9F =9 0<' : ' 5A " : 40' A<< 5' =< <' " ' 5 '" 2' "4" 2& ; B' "=<2"? < -9'" <A <5<2"4" G<' A<< 5' " ' C<' <0<@"<B' ' 0 <)' $ 5" f ' B<0 G< <B' 42 09< ' A =< : 0' 5A<<@9&B< ; 25" 4" 2-' "94"& 2' < 2-' "9<' 2 2' 45' ; ' 40"< 24" G<' " ' C ; > : A"@?& 45"0< <4-9' =45' - : 0"?' ' - 55' <D4--< 4" 2& "9<' 242B40' B 5" <55' C " 2-' B : <' " ' 5A<@ @' @4 : 5<5)' 4""42& =9 ' 94B' 04"<0?' 5 : -9'" < B<@" 2& " >' 9 -9< ' - : 2B)' <B @"<B' "94'" "9<' 2 2' = : 0B' C<' 2<' ' A4 0 4 ; <2"58' 2 '" ' A< A0<5) 0' B<5" ?' "9<' $4 0 4 ; <2'" =45' " ' B<5" ?' 42' -42' ' 24" 240' 2" B0 ' -<2@<& 4' 5 : @<' 42B' 5? ; C 0' ' 9<40"9?' 24" 2B' 0 <)' B42B' = : 0B' C<@ ; <' 5 : C B 24"<' = "9 :'" @<45 2-' " ' C<' 5<A4 4"<)

9<' : 2B4 ; <2"40' =<4>2<55' ' "9<' 5<""0< ; <2'" ' KY ' =45' "94'" " <' 59' B ; 2 5" 4" 2' =45' <5A 25 C0<' 2 '" ' "9<' 59' 9 : '" " ' "9<' 2-0 59' $4 0 4 ; <2")' ' @" 2' C<"=<<2' "9<' (<- B4" : ' 42B' "9<' D<@ : " G<' =45' "9 : 5' 402 ; 5'" 2<G "4C0<& 42B' =45' 0 >B?' " ' 2@ <45<' = "9' "9<' - ="9' ' 4' G - : 5' 24" 240' @ 25@ : 52<55)' ; ' AA 2<2"5' ' "9<' 2 2' A 2"<B' " ' "9<' 0 ?40' <@ B' R ' $4 0 4 ; <2"& C : '" 8 B' 2 '" B<2?' "94'" '" =45' = "9 2' "5' A =<' ' " ' "9=4 '" "9<' A 0@?' ' 2-042B)' 9<' 5<@ 2B' %<4>2<55' ' "9<' 5<""0< ; <2'" =45' "94'" $4 0 4 ; <2'" <A <5<2"<B' 20?' 2<' ' "9<' "9 <<' B - : 5' C B <5' 2" ' %9 @9' B42B' =45' B G B<BF' 42B' "94'" 4' -<2 : 2<' <A <5<2"4" 2' ; -9'" G< "9 ='"9<' $ "<5"42'" 45@<2B42@?' 42B' "9< <C?' <2B42- ' " <' @ 22<D 2' = "9' 2-042B)' %9<"9< ' 24" 240' 5<2" ; <2'" = : 0B' 94G<' A G<B' 5" 2-' <2 : 8' " ' G< @ ; <' 5<@"4 42' 42 ; 5 " <5' 42B' " ' =BB' "9<' 9 : @9<5' 42B' "9<' 4@<5' 2" ' 4' 0 ?40' 42B' 9 ; -<2< : 5' @ ; ' ; : 2 ?& 5' 4' N : <5" 2' =9 @9' @42' 2<G< ' C<' 425=< <B' = "9' @< "4 2"?)' 4""42' C<0 <G8' "9< <' = : 0B' 2 '" C<' 4' 4"9 0@' ; 4 "?& 42B' "94'" 2' 42?' @45<' "9<' 0 ?40"?' ' "9<' 4"9 0 @5' =45' 5<@ : <F' C : '" 9<' : 2B< <5" ; 4"<B' "9<' 5>' " ' "9<' $ "<5"42'" 45@<2B42@?& ' =9 @9' 9<' =45' 4' A <55<B' 5 : Am A "<)' 9 : 5' "9<' 2 2' @422 '" C<' : B-<B' 45' 4' 5<A4 4"<' <G<2")' '" =45' C : -9'" 4C : '" C?' 4' 2 : ; C<' ' @ @ : ; 5"42@<5& 5 ; <' ' =9 @9' =<' <' 29< <2'" 2' "9<' 59' A C0< ; & =9 0<' "9< 5' =<' <' B : <' " ' "9<' 5<0 592<55' 42B' G4@ 0m 04" 2' ' "9<' 2-0 59' 42B' 59' G< 2 ; <2"5)' "5' B< <2@<' ; 5'" <5'" 2' "9<' B : 40' - : : B' "94"& 4'" 0<45'" 4 " ; ' KYW & " <' @ 2" 2 : 42@<' ' "9<' 59' (<- 504" : <' 5<< ; <B' 0 ><0?' " ' A G<' 4' 5 : @<' ' =<4>2<55 " ' <4'" "4 2' 2' 9<' ' B<4B0?' 5" : @>' = "9' ' 42@<& 42B' "94'" " ' =45' "9<' 2<@<554 ?' A <m 0 ; 24 ?' " ' @ ; A>"<' 4"9 0@' < ; 42@ A4" 2)' ' "9<5<' - : 2B5' 4 <' 4@@<A"<B' 45' @ 2@0 : 5 G<& " 8' ; : 5'" C<' C 2<' 2' ; 2B' 2' : B - 2-' ' "9<' ; <425' C?' =9 @9' " <' 2 2' =45' 4@@ ; A0 59<B)' ' 4' 2 2' =45' 2<@<554 ?&)

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$ ʻ %4" <2ʻ 45" 2-5ʻ 54 0<Bʻ ; ʻ 40@:""4ʻ 2ʻ '<C "% "? !& KY U& 9< 0< "ʻ C<9 2Bʻ 9 ; ʻ <5"4C0 59<Bʻ 4:"9 "?ʻ 42Bʻ B<405ʻ ʻ - G< 2 ; <2"ʻ 42Bʻ A 0@?ʻ 5:@9ʻ 45ʻ 2 ʻ " 59ʻ <A <5<2"4" G< C< < 9 ;ʻ 9 ʻ 5<"ʻ "9ʻ 2ʻ 2B 4)ʻ < 94Bʻ ; 4B< "ʻ ; A 55 C0< ʻ 2-042Bʻ " ʻ C< @ 2"<2"ʻ = "9ʻ 4ʻ " 4B 2-ʻ 2"< <5"& " ʻ 9 0Bʻ 9< 5<0ʻ 4A4 "ʻ ;ʻ "9< 2" @4@ <5ʻ 4""Bʻ A455 25ʻ ʻ 24" G< A 0 " @5& ʻ " ʻ B 5B4 2ʻ 4ʻ >2 =0<B-< ʻ <2"40 0 "< 4":< 2Bʻ A9 0 5 A9?& 42Bʻ "9< -< - 4A9 @40 42Bʻ 9 5" @40 @ 2B " 25ʻ ʻ 45"< 2ʻ 0 <)ʻ ' "ʻ - Bʻ ʻ 00& 2-042B& 2ʻ "9< -:5< ʻ"9< 45"ʻ 2B 4ʻ ; A42?& 94Bʻ C<@ ; < 4ʻ A4 "2< ʻ 2ʻ "9< B<G<0 A ; <2"ʻ ʻ "9< G45"ʻ 2B 42ʻ A<2 25:04)ʻ % :0Bʻ 59< < ; 4 2ʻ @ 2"<2"ʻ = "9ʻ 4ʻ ; < <0?ʻ " 425 " ?ʻ @ 2@< 2ʻ 2ʻ "9< 5" :--0<5ʻ ʻ B?245" <5ʻ 42Bʻ 4BG<2":< 5& 42Bʻ 2ʻ "9< =<0 4 < ʻ B 5" <55ʻ ʻ ; 00 25ʻ ʻ : 40 @:0" G4" 5Fʻ ʻ = :0Bʻ 9<ʻ 4-<2"5& C?ʻ 4 ; C " 2ʻ ʻ C?ʻ "9< 59<<ʻ @< ʻ @ @: ; 5"42@<5& C< 0<Bʻ " ʻ -9"ʻ ʻ 5:A <"24@?& B A0 m ; 4" @& A 0 " @40& 42Bʻ <G<2":400?ʻ "< " 40gʻ 9< 2<D"ʻ "=<2"?ʻ ?<4 5ʻ =< < " ʻ - G< 4ʻ 240 425=<ʻ " ʻ "9 5ʻ N:<5" 2)

ʻ ?<4ʻ ʻ 0455 ":B< 5:@@<<B<Bʻ 2ʻ "9< " 59ʻ 4B ; 2 5" 4" 2ʻ "9< G- :5ʻ :0< ʻ 45" 2-5)ʻ 6 92ʻ 4@A9< 5 2& 45ʻ 5<2 ʻ 2ʻ "9< :2@ 0& 5:@@<<B<Bʻ " ʻ "9< A 5"ʻ ʻ G< ; < < 40)ʻ 9 :-9ʻ 9< 94Bʻ 20?ʻ 5 2@< KY K< C82ʻ A ; 2<2"ʻ 2ʻ 40@:""4& 9< 94Bʻ 0 2-ʻ C<<2ʻ 2@< ; <Bʻ 2ʻ 2B 42ʻ 4 4 5)ʻ :"ʻ 9 5ʻ @ 22<D 2ʻ = " ʻ "9< 242@ 40 " 4254@" 25ʻ ʻ "9< 4= Cʻ ʻ @ "ʻ ʻ"9< 4 24" @F 94Bʻ 2 "ʻ C<<2ʻ << ;ʻ 5:5A @ 2F 42Bʻ "9< < =45 0 ""0< @ 2 B<2@< 2ʻ 9 5ʻ @4A4@ "?ʻ 45ʻ 4ʻ 5"4"<5 ; 42)ʻ 2ʻ "9< 9 A< ʻ 9 0B 2-ʻ 9 5ʻ 9 -9ʻ A 5 " 2ʻ ʻ 4ʻ "< ;ʻ ʻ ?<4 5& 9< C<-42ʻ C?ʻ 42ʻ 4""< ; A"ʻ 4"ʻ <G<2:< < ;F C:"ʻ 2ʻ "9 5ʻ 9 5ʻ 5:@@<55 ʻ @ :0Bʻ 2 "ʻ 2Bʻ "94"ʻ 9< 94Bʻ 4@9 <G<Bʻ 42?ʻ 5:@@<55)ʻ 4@A9< 5 2J5 - G< 2 ;<2"& = "< (Bʻ 2=400 5ʻ 2ʻ "9< 2<D"ʻ ?<4 & ʻ "9< A G4"< 2 ; 4" 2ʻ ʻ :2B45ʻ 42Bʻ $ ""& [ʻ 94Bʻ 2ʻ 4:"9 "?& 42Bʻ "9< - 55<5"ʻ 4:B5ʻ =< < B4 0?ʻ @ ; ; ""<Bʻ C< < "9< ʻ 4@<5Fʻ "9< ʻ =9 0< @ 2B:@"& 42Bʻ 400 "9< ʻ A <"<25 25ʻ " ʻ <@ 2 ; ?& <D@<A"ʻ 2ʻ "9< <B:@" 2ʻ ʻ5404 <5& =< < 4ʻ 5@<2< ʻB<0:5 2)b

2ʻ "9< 4 ; 0 4ʻ C:5 2<55ʻ ʻ "9< 4=BCʻ ʻ @ "J5ʻ B<C"5& 4@A9< 5 2

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" ' " <4"?)' :"" "9< B 0!@:0" <5 =< < <G<2' ; < A <55 2-' 2' 2"< 240 "942' 2' <D"< 240 4 4 5F 42B' "" =45 45 4' < ; < ' ' " 59' 4B ; 2 5" 4" 2' "94"" "9< 2<=' G< 2 <2< 40 =45 @9 < 0?' " ' C< 4 ; <B& ' ; 42' ' 5<25 " G< 9 2 : ' 42B' B<G "<B' " ' B : "?& 9< 94B' "4><2' @< 20?' c2 "9< - 42"" ' :00 A =< 5 2' C "9' @ G 0 42B' ; 0 "4 ?' ; 4""< 5F 42B& < ; A =< <B' 45 9< %45 C?' "9< ! : AA0< ; <2"4 ?' @"" ' KY ' " ' 4@"" 2' A@@<5 2' <G<2' 4-4 25"" "9< G "<5 ' "9< ; 4 "?' ' 9 5' : 2@ 0& 9< <-4 B<B' "9< 4 : "9 "?' A04@<B' 2' 9 5' 942B5 45' "9< 20?' @942@< ' [54G 2-' "9 5' @ : 2" ?)\' [' ' ' DJ5' A042&\' 54 B' 9<& [' = : 0B' 94G<' : 2<B' 400)\' < A @<<B<B' " ' 4@"" = "9' B<@ 5 G< G - ;' 2' <-4 B' " ' "9< 5@42B40 : 5' 4C : 5<5 =9 @9' 5" 00 @0 : 2-' " ' "9< " 59' 4B ; 2 5" 4" 2)

4@A9< 5 2' 94B' 5A ><2' ' ["9< <04D<B' 94C "5\' ' "9< A : C0 @' 5< G @< 2' 2B 4)' 9 5' ; <42"" "9< 5?5"< ;' ' 5 ; 400 5404 <5' 42B' 04 -< A<a- : 5 "<5& 42B' "9< ; ; <25< 2 : ; C< ' ' 940 <@ 8 5<B' ; < C B5' ' CC : 2 2-' ; 2<?' " ' =9 @9' " 59' @ 405' 94B' <5 " 3 8 ; 2 A 0 <5& @<5' 4"" 24" G< : "5& CC 2-' 4- ; @ <5& 5 2<@ : <5' ' ; 42?' B 8 2 "' > 2B5F " ' =9 @9' ; : 5"" C< 4BB<B' "9< 4C : 5< ' "9< <@" 5 A4" 24-<& 42B' ' "9< 2 0 : <2@< ' A =< : 0 A< 5 25' 4"" 9 ; <& 4 ; 2-' =9 ;' "9< $ 2@< ' %40<5' =45' @ 2m 5A @ : :5)' ' ' "9 <<?<4 5' 2=400 5' B<G "<B' 9 ; 5<0 '" ' "9< 5 : AA <55 2' ' 5 : @9' 4C : 5<5F 42B' 9 5' B<"< ; 24" 2& B -2 "?& 42B' : 2"4 2 59<B' A< 5 240 9 2 : ' <24C0<B' 9 ;' " ' 5 : @@<<B)' <A< 5 : 4B<B' "9< "2 "")' <@" 5' " ' 4 : - ; <2"" 5404 <5& 2' "9< A 2@ A0< "94"" - B' A4?' 5' "9< A4 <2"" ' - B' = >F 42B' 9< 0< "" C<9 2B' 9 ;' 4' A : <B' 42B' <2< -<" @' A : C0 @' 5< G @<)

' 0<55' G "400?' B B' 9 5' = >' 4 <@"" "9< 24" : < ' " 59' : 0< 2' 2B 4' =9<2' 9< " >' 2' 942B' "9< < ;' ' "9< A 0 @< 5?5"< ;' 42B' "9< <G<2 : < 5<""0< ; <2"" ' <2-40& "9< " ' "9< ; A42?)5' @ 00<@" 5' 94B' <2 ?<B' @< "4 2' A =< 5' ' @ G 0 : 5B @" 2& =9 0< "9< @ ; 240 04=' 94B' C<<2' 4B ; 2 5"< <B' C?' "9< 4=BC Ba ;' 42B' 9 5' 24" G< 455 5"42"F ;' "9<5< C< < =45' 4AA<8' " ' "9< !4B' =B2' BB04"" 5 : A < ; < @ G 0 : "E 42B' "9< aB ; 4"" BB04"" 5 : A < ; < @ ; 240 : "E <5A<@" G<0?)' 9 5' 5?5"< ; <5 : 0"<B' 2' C "9' : 2@< "4 2"?' ' : 5B @" 2' 42B' B G< 5 "?' ' A 4@" @<F A : 2 59 ; <2"5' =< < 4" 2400?' 5<G< < ' 4C5 : B0?' 04D)' G< ' 400 "9< B 5" @"5' ' "9< <2-40 "< " ?' ; =4 5' A04@<B' " 59' : B-<5' 42B' ; 4- 5" 4"<5F 42B' 4C G< "9<5< 9< <5"4C0 59<B' $ G 2@ 40 : "5' ' AA<40 4"" 40@ : ""4& $4"24& 4@@4& 42B' : 59 BBCBB)' 2B< ' "9< ; 4- 5" 4"<5' =< < A04@<B' A # ' 9<4B5' ' A 0 @<& =9 ' C4B' 4 : "9 "?' " ' 4 <5"" 42B' " ' "4>< C4)' 9< 94 ; ; 4B42' B< =45' 00 =<B' 2' @ ; 240 @45<5& "9< C4 C4 "?' ' "5' A : 2 59 ; <2"5' C< 2-' ; " -4"<B& 42B' "5' : 0<5' ' <G B<2@< <G 5<B& 2' 4@@ B42@< = "9' 2-0 59' A 2@ A0<5)' 2' @ G 0 @45<5' 2B : ' ' 94 ; ; 4B42' 455<55 5' 5 55 5"<B' "9< " 59' ; 4- 5" 4"<' " ' B<40 = "9' "9< 2" @4@ <5' ' <0 - : 5' 42B' 5 @ 40 @ : 5" ;)' 9< @942-<5' 2" B : @<B' C?' 2=400 5' ; 4 ><B' 42' < 4' 2' "9< " 59' @@ : A4" 2F "9<?' B< 2<B' : 5B @" 2' 42B' @ <4"<B' A @<B : <F 42B' "9< <- : 04" 25' ' KYW!' A 4@" @5B0?' ; <B' 4' 2<=' B<& =9 @9' 945' C<<2' "9< C45 5' ' 400 5 : C5<N : <2"" 0<- 504" 2)' 9<?' C<4 ' "9< ; 4 >5' ' 42' 42D : 5' <-4 B' ' @ G 0 42B

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) %!? J % !) YK

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YK +' ' J ' (. IKY WU

; A<4@9 ; <2"# =< <% 5"% "9< A G4"< 42 ; 5 "?' ' $9 0 A' ' 42@ 5% 42B% 5<@ 2B0?% "9< A : C0 @' A 0 @?' '"9< A4 "?' ' ' D)' 9<5< =< < C0<2B<B' C?' "9< < ?' -<2 : 5' ' : ><8' = 9 ' " >' : A' "9< @4 : 5< 45' ' "9< A : 2 59 ; <2"# ' 4' - <4"# ; 40< 4@" % =9<2' : 2A < : B @<B' 5" : B?' ; -9"# 94G< 0<B' 9 ;' 4"9< ' " ' @94 ; A 2' 4' - <4"# : 0< ' = 9 ' =45' "9< G @" ;' ' -2 42@< 42B' A455 2)' 9< @94 -<5% 2' "9< <2B% @<2" <B' : 2B' "9< <D<@ : " 2' ' : 2@ ; 4 % "9< " <4" ; <2"# ' 94 "# ! 2 - 9% 42B' "9< A<@ : 2 4 ?' <D4@" 25' ;' "9< <-4 ; 5' ' : B9F " ' : >< "9<5< =< < ["9< B4 ; 2<B' 42B' B4 ; 24C0< A @<<B 2-5' ' 4' : B - < 2' 9 < 00F 42B' 5 : @9' 4' : B - < =45' %4 <2' 45" 2 - 5)\' : "# = "9 2' "= ' ?<4 5% =9 0< "9< 50 =' @ : 5< ' "9< " 40' B 4 - - <B' 2% 00 : ; 24"<B' 20?' C?' "9< 0459<5 ' : ><J5' - -< : 5' 2G<@" G<% "9< A : C0 @' 2"< <5"# 2' "9< =9 0< N : <5" 2' B<@0 2<B)' 94"# 45" 2 - 5' =45' 2 "# 5<0 % @ : <0% ' : 2A 2@ A0<B% =4g C<@ ; 2 -' 4AA4 <2"# " ' 400 =9 ' @ : 0B' : B - <F 42B% =94"# =4 !' ; < ; A "42"% "9< A 0 @?' ' ' DJ5 A4 "?' 2' <-4 B' " ' <2 - 40' =45' 0 5 2 -' 2"< <5"# 45' @ ; A4 <B' = "9' "9< ' 4"" " : B<' " = 4 8' "9< ' <2@9' <G 0 : " 2)' 4 - @' <G<2"< 2' ' 42@<% 2' 2 - 042B' "9< / 2 - J5 % 002<55% "9< <-<2@?' 00% 42B' "9< 4 ' ' : ><% 4C5 C<B' A : C0 @' 4""<2" 2)' 4?5' 42B' =<<>5' A455<B' 2" ' ?<4 5F ?<"# "9< " 40' 5<< ; <B' 2 ' 2<4 < ' 4' @ 2@0 : 5 2)' ' 4' "< ; A 4 ?' <D@ "< ; <2"# =45' 4 : 5<B' =9<2' 2 = 400 5' @4 ; < =4 B' " ' - G< <G B<2@< 2')C<940 ' ' 9 5' - <4"# A <B<@<55 % "9< A @<<B 2 - 5' =< < ' "9< ; 5"# A4 "# @4 <B' 2' = "9' 04C : 5' A 0 D "?' 42B' 00 =<B' = "9' : 2@ 2@<40<B' =<4 2<55)' < <' "9< " 40' =45' G< % '"9< 9 : 2B <B' 42B' 5<G<2"?' A<< 5' = 9 ' 94B' 54"# 2' "9< A<2 2 -' B4?' 5 D"?' =< < 2 ' 0 2 - < ' 0 G 2 - F 42B% = 9<2' 4"# 045"# "9< B<@ 5 2' =45' @<B0<B' % 20?' "=<2"?82 2< <@ B<B' 4' G "<)' 2' A 0' % KYWU% "9< : B - ; <2"# =45' B<0 G< <BF 42B' C?' 4' 04 - <' ; 4 "?' 45" 2 - 5' =45' 9 2 : 4C0?' 4@N : ""<B)

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KYW _ 8 D "- 1 ?%@ = +)

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) ') x)) xx) Z

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D) ' + ' 5 , ' J ' < ' , 8' 5$0-0!0

400?' C?' "9<' ; A42?!5' 4BG @<& "9< <' =45' 5 2 <' 5<@: "?' 4.' A<4@<' 2' _CB 1 3!0: :@9' =45' "9<' G <=' ' "9 : ' %<00<50<?& "9<' 4C0<' 5 0B < ' =9 ' 94B' 40 <4B?' B 5" 2-: 59<B' 9 ; 5<0 ' 2' ?5 <)' :'" "9<' <40' N:<5" 2' =45' ' 9<' <D@<00<0: 8' '"9<' [' 5 : C5 B 4 ?\' 5?5"<02' "5<0 F' 2' " :"9' '" @ :0B' 2 '" C<' A< ; 42<2"& 42B' ; :5'" <2B' 2' = "9B 4=40' ' 422<D4" 2)

2' 4?' K & K j& 4 ' B ' < <2"< <B' $ 24' 45' $<59=4& = "9' <2 ; 40' "9 : ' %<00<5!08' 45' 9 5' - :4 B)' 2' :-:5'" ' =4 ' C >' :'" = "9' ! 2B9 4F' 9<' 94B' 2 '" C<<2' ; -' 2' 5<< 2-' "94'" 9 5' 2B<A<2B<2@<' = :0B' C<' "9 <4"<2<B' 2<D")' 9<' - <4"<5'" ' (B' %<00<50<?!5 5" :--0<5' C<-42)' <' A0: ; <B' 4'" 2@<' " ' B<5" ?' "9<' ' <2@9' @<& " ' @ 2N:<' "9<' =9 0<' ' "9<' 042B' C<"=<<2' "9<' 42-<5' 42B' "9<' 6: ; 24& " ' 5< a<' <09 ' 42B' - 4& : B' " ' <D"<2B' 9 5' @<2" <B' ;' / 4"4>' " ' 94 @9)' '" "9<' ; "5<"& " 59' 4 ; 5' =< <' 5:@@<55 :0' G< ' 4' 04 -<' A4 '" ' "9<' <0B)' 2' KYWW' B ' 94B' - G<2' 4' 0<45<' ' 400' "9<' ' <59=4!5' -9"5' 2' : 4 B'" " ' G 2B' F' C:'" / B29N ' B<>=B & 5:AA "<B' C?' 9 5' 4C' -:4 B& 94B' 9<0B' "9<' @4A "40& 4 B4)' %<00<50<?' 54=' "9<' ; A "42@<' ' 5<@: 2-' "9 5' @ 2 ; <@<B' 42B' ; 0 "4 ?' A 5"F' 42B' "9<' " 59' " A5' " >' '" C?' 5" ;)' 2' A 0& K U& 8' " <4"?' <5"4C0 B <B' 4' 54" 5 4@" ?' 5<""0< ; <2")' 4"4>' =45' 5" 00' ; <' <45 0?' 5<@: <B)' 2' 2B:5"42' 42B' "9<' <@@42' "9<' = >' =45' ; " @9' ; <' 5< :5)

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aspect of a desert." He spoke from his own observation; and Holkar was the most savage freebooter of his time. But his career was cut short by General Frazer, who won a brilliant victory at Díg on Nov. 12, 1804; and Holkar's cavalry was cut up three days later by Lake at Farrukhábád. On December 24 Díg, in the Bharatpur country, fell before the British arms; and the Rája of Bharatpur, after keeping Lake at bay for many months, at last consented to a treaty.

It was at this point, when success was within his grasp, that Wellesley's government came to an end. For this abrupt conclusion there were other causes besides Monson's defeat. The Directors had viewed with increasing alarm the expansion of their territory under the forward policy of their brilliant Governor-General. They were quite unprepared to undertake Imperial responsibilities. Lord Wellesley saw that some one government must weld the different nations and races of the vast peninsula into a single whole; the Directors, of whom Charles Grant was an able spokesman, regarded the idea as a scheme of ambition and aggrandisement, contrary to the Act of 1784, and in principle wholly unjustifiable. But it was not only the rapid advance of empire, involving what seemed like an attempt to rival in India the aggressions of Napoleon in Europe, against which the Directors protested. At every point of administration Wellesley had matured plans for improvement. Some of them he had carried into effect; others waited for sanction; and the sanction was refused. He reconstituted the chief civil and criminal Courts, the Sadr Diwání Adálat and the Nizámat Adálat, no longer retaining for the Governor-General in Council those judicial duties which it was impossible for him, in the pressure of other business, adequately to perform. He planned a reorganisation of the whole system of government. The scheme exists in manuscript, but it never approached acceptance. The Governor-General proposed that there should in future be only two divisions of British India—Bengal, and Madras with Bombay and Ceylon. The Governor-General was to be over both, with a Council and a Vice-President for each. In view of the Company's growing responsibilities, it was not surprising that such a scheme failed to obtain consideration.

Closer to the Governor-General's heart was the training of the Company's civil servants. The ignorance of the local officials led too often, said Wellesley, to sloth, indolence, and low debauchery. The young men who were sent out had no previous training; and the training they received in India was inadequate to enable them successfully to act as judges, financiers, administrators, and rulers. Wellesley determined to supply the training by a college to be erected at Fort William, for which he planned the government, discipline, and course of study. His foundation received the warm approval of Warren Hastings, who had had a similar scheme in mind thirty-five years before; but the Directors took alarm, and the college speedily disappeared.

made early in 1805, was established at Delhi under British protection, with a considerable payment and provision for his dignity. The object of this was as little understood in England as Wellesley's general policy of "subsidiary" alliances. Even Pitt is reported by Castlereagh to have said that the Governor-General had acted most imprudently and illegally; and it was on this understanding, and with the object of reversing all that could be reversed, that Lord Cornwallis again accepted the Governor-Generalship. He entered on his duties on July 30, 1805. He immediately began negotiations with Holkar with the view of concluding peace. His view was that the line of the Jumna should be taken as a military frontier, that all the country west of that line should be given up; and that the territories south and west of Delhi should be granted to the smaller Rájas, who were to be pledged to relinquish all claims to British aid. Either they would unite against Sindhia, or he would have enough to do to reduce them. The British rule was to depend, not on its own power, but on the internecine strife of its rivals. So much was clearly sketched; and something, in spite of the bitter opposition of Lord Lake, was accomplished, when Cornwallis died on October 5, having held office little more than two months.

Sir George Hilaro Barlow, a civil servant of the Company, senior member of the Council, succeeded provisionally to the post, and was immediately confirmed in it by the Court of Directors. A conscientious and strong-minded man, Sir George Barlow felt himself bound to carry out the known wishes of the Directors, and to endure the obloquy which was sure to fall upon him for repudiation of honourable obligations. The treaty made with Sindhia meant the abandoning of many allies, and the practical submission of the Rajpút chieftains to his attacks. Holkar was pursued by Lord Lake across the Sutlej into the territory of the great Sikh ruler Ranjít Singh. The attitude of the Sikhs was long undecided; but early in 1806 Ranjít Singh came over decidedly to the British side. A series of treaties left a number of minor chieftains to the vengeance of Holkar, and allowed him to recover the greater part of his lost dominions. Misled perhaps by the fears disseminated by returned civil and military servants, who told them that he was now the only strong power in India, and that they must court his friendship, the Board of Control sanctioned a treaty by which Holkar, who had taken refuge in the Panjáb in his disorderly flight before the British army, was permitted to return to his dominions, and was established in a greater position than he had ever held before. Moreover, in April, 1809, a treaty was made with Ranjít Singh by which the Sikh power was restricted to the north of the Sutlej. But Jaipur was abandoned; and the Sikhs were left free to subdue the districts of Multán, Kashmír, Pesháwar, and the Deraját.

The administration of Sir George Barlow marked the practical abandonment of central India to rapine and anarchy. Udaipur was

de Bourbon and the Île de France (Mauritius), and by the occupation of Java in 1811, by which time every position held by France or her dependencies in the East, had passed into English hands. During this period we should also note the beginning, or at least the extension, of a policy, of which slight indications had been given both by Warren Hastings and by Wellesley, of entering into friendly relations with the great States outside the limits of direct British influence. Mountstuart Elphinstone led a mission to the Amir of Afghánistán, who promised to prevent any attack on India through his territory; but the Amir, Shah Sujah, was himself dethroned immediately afterwards, so that nothing came of the mission. Sir John Malcolm, who so early as 1803 had been called "Lord Wellesley's factotum and the greatest man in Calcutta," and whom Wellesley had sent in 1799 to Teheran, went in 1807 on a mission to the Persian Gulf, and in 1810 again visited the Persian sovereign and obtained an assurance of friendship. In 1809 Charles Metcalfe negotiated an alliance with Ranjít Singh, which brought British power to the banks of the Sutlej. Each of these three distinguished public servants had been trained in the school of Wellesley; and if the results of their embassies were not great, they served at least to emphasise the wide interests of the British power. The treaty with Persia, which was not definitely completed till 1814, is notable as showing that the British Government was already apprehensive of Russian influence in the East, the security of Persia being guaranteed against any attack from that quarter.

The Governor-Generals who succeeded Wellesley possessed none of his fire, even if they had his opportunities; and the work of Lord Minto was rather one of consolidation than of fresh advance. Legal changes, some attempts to redress the errors of the Permanent Settlement of Bengal, and to reform the rural system of the Madras Presidency (a great public service for ever associated with the name of Sir Thomas Munro), and a vigorous effort to organise a police force and local criminal judicature, marked the period which ended in 1813. In 1814 a new advance was made by the Earl of Moira (afterwards Marquis of Hastings), whom the Prince Regent, his personal friend, sent out to replace Lord Minto. The most important work of Hastings and his successor belongs to a later time; it was concerned mainly with the destruction of the Pindáris, the armed freebooters of central India, and with the final suppression of the Marátha power at Poona. Of earlier date, and significant as marking the direction in which British enterprise was advancing, was the war against the Gurkhas of Nepál (1814–6). This expedition was at first unsuccessful, largely through the unpopularity and rigour of the officers, whom the troops refused to follow. Things went better when the command was taken over by Ochterlony, who captured many hill forts, advanced into the valley of Khátmándu, and from Makwánpur might have pressed on to

the capital itself. But Hastings was content with a treaty which restricted the Gurkhas in their power over Sikkim, and, after a renewal of the war in 1816, compelled them to cede a large tract of territory along the outer ranges of the Himalayas.

In 1813, after prolonged debate, the Charter of the Company was renewed for twenty years. Castlereagh, who introduced the Bill into the Commons, proposed to establish free trade, both import and export, for all British ships not above four hundred tons. This liberal approach towards complete freedom was hotly contested. The Company brought up some of its most distinguished servants to plead for its privileges. Warren Hastings, the Marquess Wellesley, Lord Teignmouth (Shore), Sir John Malcolm, Charles Grant, spoke, but spoke in vain. The renewal of the Charter in 1813 was, in fact, a decisive mark of the extended interest which England as a whole was beginning to assert in Indian affairs. A vast number of pamphlets, papers, reports, protestations of every kind, manifest the public concern. The settlement of the trade question was complicated by a passionate religious controversy. A number of timid traders, and at least as many persons of narrow political views, displayed great alarm as to the prospects of Christian missions in India. Wilberforce, who powerfully supported the attempt to win freedom for Englishmen to teach their own religion, declared definitely "that the missionaries should be clearly understood to be armed with no authority, furnished with no commission, from the governing power of the country." The distinction was emphasised by Lord Wellesley, who had definitely asserted the Christianity of the Government when he was in India, and strongly favoured the increase of the Church establishment; while able civil servants like Malcolm warmly urged a considerable extension of the educational work of the Company. Several missions had already been started; some progress had been made, and further advance was retarded only by the hesitation of the Government to permit the appointment of a bishop.

Somewhat apart from the general progress of the British power during the period under survey stands the history of Ceylon. At the beginning of 1795 the island, long held by the Dutch, was seized by an expedition from Madras; and on February 16 the Dutch Government surrendered its authority to Colonel Stuart and Captain Gardner, R.N. The end of the severe and unsympathetic Dutch rule was universally welcomed in Ceylon. In spite of the most careful regulations for preserving the rights of the Dutch religious establishment, it soon disappeared; and no other influence, except in the region of law, remained to testify to their long occupation. During 1797 there were proposals for the retrocession of Ceylon to the Batavian Republic; and some injudicious action on the part of the representative of the Madras Presidency, under which the island was placed, led to a revolt, which caused Pitt to see the wisdom of placing it directly under the

Crown. In October, 1798, Frederick North became first Governor. Lord Wellesley regarded Ceylon as an important part of the Indian Empire, essential to its defence; and he proposed that it should be definitely placed under the control of the Governor-General. While the English held the coast, the mountain kingdom of Kandy remained independent; and with its ruler North engaged in negotiations which bore the appearance of a discreditable intrigue. In 1803 British troops took possession of Kandy, but the bulk of the force was soon withdrawn, whereupon the remainder were massacred by the natives. It was not till 1815 that satisfaction for this act was obtained. The King of Kandy, for twelve years ruled without interference as a successful and savage tyrant. At length an outrage committed on British subjects led to a declaration of war on January 16, 1815. The Governor, General Brownrigg, acted against the advice of his Council, but was completely successful; and on March 2, 1816, the tyrant was deposed. In 1817 an insurrection broke out, but it was speedily suppressed; and the island has since then remained tranquil under the British Crown.

The echoes of the great European conflict were heard in India only like the sound of distant thunder. But there was one occasion on which the East sent its aid to repel in a far distant land the encroachments of the West. At the end of December, 1800, an expedition started from Bombay to intervene in the Egyptian campaign. It consisted of 6400 British and native troops, commanded by Sir David Baird. The force landed at Kosseir on June 8, 1801, whence, after a march of 140 miles across the desert, it reached Cairo on August 10. From Cairo it marched with the rest of the British army to Alexandria; and three weeks later the French capitulated.

This expedition, insignificant as were its immediate results, is remarkable as illustrating the position which British rule in India had, through the struggles of the years 1785–1815, definitely attained. The innumerable diaries, memoirs, letters of travellers, and state papers, in which the inner social history of this period may laboriously be read, leave an impression of narrow commercial views, of personal interests selfishly pursued, of a lack of sympathy with other races, of difficulties of education and environment awkwardly surmounted, of petty aims and trivial incidents. But to conclude that this was all would be to take a very superficial view. The Governors who from time to time guided the policy of the Company in India, much though they differed in width of view, in knowledge, in statesmanship, were yet, every one of them, inspired with an earnest desire for righteousness and justice in their rule. The experiment of governing millions of Asiatics in accordance with the dictates of Western ideas was being tried, amid many difficulties, but with unflinching determination. The greatest of the Governors felt the stupendous nature of their task. They did not undertake it lightly, whether it was Cornwallis in his revenue and police

reforms, or Wellesley in his alliances and his wars. It was an ideal not of conquest but of empire which they set forth; and from that ideal the deep thought of moral responsibility was never absent. They had their reward in the permanence of their work. It is this that makes the growth of British power in the East during the thirty years that followed the rule of Warren Hastings a unique phenomenon in the history of the Napoleonic age.

II.—THE COLONIES (1783–1815).

Although the French War, which closed with the Battle of Waterloo, was the last episode in the long contest for colonial and commercial pre-eminence, its colonial character was less apparent than in the case of earlier wars. The British colonial empire of the time was of a singularly amorphous structure—in the East, vast and wealthy territories under the ill-defined authority of a trading company, moving, under irresistible impulses, in a direction from which its natural instinct recoiled; in the West, a conquered French possession, some island colonies hitherto unprogressive, and a wilderness sparsely peopled by "United Empire Loyalists." A convict colony in the southern seas could not arouse enthusiasm; and the West Indian Islands alone seemed to realise the idea of the old colonial system. But, such as they were, the colonies and the nascent Indian Empire were alike protected by the dominant sea-power of Great Britain. Thus it came about that, though the French Revolution and the personality of Napoleon dominate the general history of the period, there were distant regions, of great future importance, which scarcely felt their influence.

In Australia and in Canada the seed, sown in dishonour or in carelessness, of a self-governing colonial empire was struggling into life. That this empire was due to no conscious aims of British statesmen is manifest. The declaration of American independence cast its shadow over the years which followed. When, in 1793, Great Britain was involved in war with France, colonies became pawns in the game; but even then there was no deliberate aim to secure colonial ascendancy by means of sea-power. The conquered West Indian Islands were, with the exception of Trinidad, readily restored at the Peace of Amiens. The ultimate decision to retain Cape Colony and Mauritius was based on military, not colonial, considerations. At the final peace British statesmen felt no heartburnings in restoring to Holland that "other India," Java; and, in justifying the action of the Government with regard to the French colonies, Lord Castlereagh deliberately maintained that it was not the interest of England to make France a mere military, instead of a commercial, nation. The final outcome of the great war

was the colonial ascendancy of Great Britain; but such was not the conscious aim of those who carried through the struggle.

It would be easy to imagine that the foundation of New South Wales, almost immediately after the loss of the American colonies, was intended to call a new colonial empire into existence to take the place of the old; but, in point of fact, the first movers in the matter were careful to explain that they intended no repetition of the past. In view of the general disapproval of emigration, they laboured to refute the notion that their project would in any way depopulate the parent State. The settlers of New South Wales (they asserted) would principally be collected from the Friendly Islands and China; and only a few skilled workmen, with the ships' crews, would be required from England. James Maria Matra, who was, next to Sir Joseph Banks, chief author of the proposal, while advocating the colony as an asylum for the American loyalists, still held that the bulk of the immigrants might come from China. Part of New South Wales lay in the same latitude as the Spice Islands; and spices and other tropical or semi-tropical products would be the main wealth of the colony. The whole expense to the British Government need not exceed £3,000. Lord Sydney, the Home Secretary, whose department had at the time the control of colonial affairs, saw no visions of a Greater Britain in the southern seas; but he was seriously exercised over the question how to dispose of the convicts who were crowding the English prisons, and he recognised in the proposal a way of escape. From the time of George I, a regular system of transportation to the American colonies had been in force; and it was necessary to find a substitute for this outlet. In 1784 an Act of Parliament was therefore passed enabling the Government, by an Order in Council, to indicate places to which convicts might be transported; and in 1786 "the eastern coast of New South Wales" was declared to be such a place.

The new colony extended, on paper, from Cape York, 10° 37′ south latitude, to South Cape, 43° 39′ south latitude, and inland as far as 135° east longitude. It included all the islands adjacent in the Pacific Ocean within the aforesaid latitudes. These spacious limits were doubtless fixed to forestall occupation by other Powers. The Governor's commission might follow the sonorous precedents of more hopeful times; but there is no reason to suppose that the Government had in view more than a mere convict colony. Even so, it was started with amazing recklessness. The coast of New South Wales was practically unknown. The projectors were ignorant of the physical conditions, which subsequently proved so great a hindrance to agriculture. The system under which transportation to the American colonies had taken place had secured the efficiency of convict labour; but it was a wholly different matter in Australia, where no attempt was made to select those convicts who were most suitable for agriculture, and skilled overseers were

not provided. The wonder is, not that the colonists suffered hardships and want for several years, but that New South Wales ever successfully emerged from its period of beginnings.

For this result the credit is mainly due to its first governor, Captain Phillip. His appointment evoked surprise from Lord Howe, First Lord of the Admiralty; but he proved himself eminently the right man for the place. The arrangements made for the voyage were by no means adequate, but they would have been far more defective without Phillip's ceaseless exertions. The first fleet, with 756 convicts on board, started on May 13, 1787, and arrived at Botany Bay on January 18, 1788. Finding Botany Bay unsuitable for settlement, Phillip proceeded to examine Port Jackson, where he found "the finest harbour in the world": and he selected Sydney as the site of the new colony. Owing to the size of the trees, the labour of clearing the ground proved almost too severe for undisciplined convict labour. In this state of things, Phillip recognised the necessity of a regular supply of provisions for four or five years. The home authorities took little interest in the emigrants; and, when to this difficulty was added the loss of ships with stores, famine itself came perilously close. Other troubles beset the sorely-tried Governor. Major Ross, who commanded the Marines, was a continual thorn in his side. The dignity of the service forbade that officers should hold any intercourse with the convicts when not directly compelled. A further cause of anxiety arose from the disproportion of the sexes in the colony. The first intention had been that the convicts should receive wives from the South Sea Islands; and, even when this idea was abandoned, the proportion of women to men sent out in the years during which the system of transportation prevailed was seldom higher than one in three, and often much lower. The first settlement might well have consisted only of able-bodied men who might have received wives after carrying out the preliminary work; in the course actually adopted there was neither method nor convenience.

Nevertheless, through all his trials, Phillip maintained his faith in the future of the country. He never wavered in the belief that the colony would "prove the most valuable acquisition Great Britain ever made," although he recognised that no country offered less assistance to the first settlers, or "could be more disadvantageously placed with respect to support from the mother-country, on which for a few years we must entirely depend." Before starting he had written: "as I would not wish convicts to lay the foundation of an Empire, I think they should ever remain separated from the garrison and other settlers that may come from Europe." Experience now proved that fifty farmers sent out with their families would do more in one year to render the colony self-dependent than a thousand convicts. The "assignment" system, under which alone convict labour could be made economically profitable, was suggested by Phillip. Free emigrants should have the

labour of a certain number of convicts for two or three years, after which they should be able to support themselves, and pay, in return for convict labour, the cost of the passage out of such convicts. The first free settlers arrived in New South Wales in 1793, after Phillip had left the colony; but their arrival was due to his despatches. The work committed to Phillip was in some ways squalid; nevertheless, he has rightly taken rank among "the builders of Greater Britain."

The success or failure of one-man government will always depend upon the efficiency of the directing mind. So regardless, however, were the home authorities of this elementary truth, that a considerable interval took place between the departure of Phillip and the arrival of his successor. Phillip left Sydney in December, 1792; Hunter did not reach that place till September, 1795. This interregnum proved calamitous to the colony. The military Acting-Governor superseded the civil Courts; the restrictions against the supply of spirits to convicts were relaxed; and, when Hunter at last arrived, he proved unable to abate the evils which had arisen. In 1799 he was recalled. While the colony was suffering evil days, a discovery was made, which, more than anything else, rendered possible a different and happier Australia. Phillip had reported that sheep would not thrive in New South Wales; but in 1794 Captain MacArthur, who had gone out as an officer in the New South Wales Corps, began his efforts in the direction of producing fine wool; and two years later he obtained some sheep of the pure merino breed from the Cape. It was from these beginnings that the great pastoral industry of Australia took its rise.

The appointment of Hunter's successor, King, was made, though late, on the advice of Phillip, who had recommended him for the post. The task which awaited the new Governor was very difficult. The unrestricted importation of spirits had proved the curse of the colony; and to check this evil was to come in conflict with vested interests and to incur unpopularity. Nevertheless, the landing of spirits without a written permit for the specific quantity was forbidden; and in no circumstances was drink recognised as an object of traffic. We are told that nearly 70,000 gallons of spirits and over 31,000 gallons of wine were refused a landing during King's government. Moreover, the fixing of reasonable prices made the trade less tempting. The improvement in the morals of the colony during King's period of government was attested by those best able to pronounce an opinion.

In 1802 a considerable flutter was caused in the little community by the appearance of two French vessels under Captain Baudin. The avowed object of the expedition was scientific; and it received a friendly welcome, even before the announcement of the Peace of Amiens. It was rumoured, however, that the real object was to found French colonies in the southern seas. In any case, without the command of the sea, such colonies must have succumbed to the English. After the death of the gallant

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the time free, without any trial or examination before a Court." This flogging occurred in 1816, and the justification was written four years afterwards. How from such beginnings Australia gradually developed, until now it is perhaps the most democratic community upon the face of the earth, will be told later.

In spite of the wide terms of his commission, New South Wales, as known to Phillip, included only the present county of Cumberland; it stretched from Broken Bay in the north to Botany Bay in the south. The exploration of the Hawkesbury and Nepean rivers in 1789 opened up a large stretch of fertile country on their banks; and the crossing of the Blue Mountains in 1813 enabled the rich district of Bathurst to be thrown open to settlement. In 1797 the mouth of the Hunter river was discovered; and a branch depot for convicts was afterwards started there. So little was known of the coast of Australia that it was not till 1798 that Bass, sailing in an open boat, proved Van Diemen's Land to be a separate island. In 1801–3 Flinders first made a survey of the coast of southern Australia. Port Phillip was discovered in January, 1802; and it was decided to form a settlement there as well as in Van Diemen's Land. But the Lieutenant-Governor, Collins, who arrived in October, 1803, formed a most unfavourable opinion of the site, and he was allowed to remove to Van Diemen's Land, where he founded the settlement of Hobart. A settlement was also started at Port Dalrymple on the north coast of the island.

If the early history of New South Wales crudely illustrates the temper of the times with regard to colonisation, in Canada a very different problem was exercising the minds of British statesmen and Governors. The history of Canada down to the British conquest has been described in a previous volume. At first the new province was placed under military rule; but the disposition of the British Government, both at home and in Canada, was very conciliatory, and the system was well adapted to the simple character of the population. There was distress, owing to the delay of the French Government in admitting liability on the paper-money; but, upon the whole, the people seemed fairly content with their new rulers. The problem how to recognise the position of the Roman Catholic Church, while preventing it from becoming a nucleus for French intrigue, was solved by tacitly allowing claims which could not be openly admitted.

It was the singular good fortune of Great Britain that, when war broke out with France in 1793, it came in such a fashion as to alienate the natural sympathies of the Canadian people. The British Governors were under no illusion as to their temper; there was acquiescence in British rule, but the patriotism and prejudices of generations could not be uprooted in a day. The British officers, to whom the care of the new colony was entrusted, regarded with special favour the simple and

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the Canadian archives. But above all, one name must always be associated with the making of British Canada—that of Sir Guy Carleton. As Lieutenant-Governor or Governor of Quebec from 1766 to 1778, and again, from 1786 to 1796, as Governor of Quebec and subsequently Governor-General of the British North American possessions after the passing of the Constitutional Act, he had unrivalled means of judging of the character of the new colony; and no one could have used his knowledge to better purpose.

Even Carleton, however, was unable to check one of the worst abuses of the old British colonial system. In indignant language he called attention to the abuses of the system of fees and perquisites to judges, officials, and others. He denounced a system "which alienates every servant of the Crown from whoever administers the King's government. This policy I consider as coeval with His Majesty's governments in North America, and the cause of their destruction. As its object was not public but private advantage, so this principle has been pursued with diligence, extending itself unnoticed, till all authority and influence of government on this continent was overcome, and the Governor reduced almost to a mere corresponding agent, unable to resist the pecuniary speculations of gentlemen in office, or to convict their connections and associates of any enormity whatever. It was not therefore surprising that this phantom of an executive power should be swept away at the first outset of a political storm....Whatever tends to enfeeble the executive power on this continent tends to sever it for ever from the Crown of Great Britain." It was in fact the weakness rather than the tyranny of the executive which was the chief evil of the old system of government; and it is this weakness for which responsible government has provided the remedy. But in Carleton's time responsible government was far distant; and a dreary waste had to be passed, wherein the weakness of the executive, the private interests of the Council, and the irresponsible clamour of the Assembly were destined gradually to bring about the final *impasse*, relief from which was found in a peaceful revolution.

Under the proclamation of October 7, 1763, regular Courts to administer English law were to be erected; and the promise of a General Assembly was held out. The situation had been complicated by the arrival of some two hundred immigrants from the American colonies. These regarded with dislike and contempt the ignorant population which surrounded them, and resented strongly the delay in granting a popular Assembly, in which they alone, as Protestants, would have taken part. To such the rule of a Protestant minority over Roman Catholics seemed in the nature of things. The English settlers were mostly traders or disbanded soldiers; and the Justices of the Peace were largely recruited from the ranks of those who had failed in business. Such men "sought to repair their broken fortunes at the expense of the people." Grave scandals occurred in the administration of the law. In

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should refuse to the French of Lower Canada what they were granting to the English in Upper Canada.

Under the Constitutional Act, 1791, the province was divided; and separate legislatures were established in the two new provinces. French laws and customs could thus be retained in Lower Canada, while the English population of Upper Canada obtained the benefit of English law. The English inhabitants of Quebec were the chief sufferers under the Act. Under the electoral arrangements made by the acting-governor, Sir Alured Clarke, the proportion of representatives in the Assembly was fixed according to the existing population of the different districts. At this time, the agricultural population was almost entirely comprised in the French *seigneuries*; and, the number of members of the Assembly remaining the same, the English townships, as they developed, did not receive adequate representation. Looking back, we may regret that no attempt was made to strengthen the government by adding to the efficiency of the Executive Council. There was in it no division into departments, no individual responsibility, and no individual superintendence. The claim of Dorchester to select councillors to form an inner cabinet was not approved by the home authorities; and the Executive Council was a mere Privy Council, wherein men of wholly different views might sit side by side. Dorchester's successor, Prescott, who arrived at Quebec in 1796, became involved, from the outset, in a hopeless struggle with his Council over the question of land grants, and, while continuing to receive his salary as Governor, spent most of his term of office in England. His successor in the government, Milnes, also found himself thwarted and opposed by Chief Justice Osgoode. It need not have passed the wit of man to find a remedy for this unfortunate state of things.

With regard to the Legislative Council, one provision of the Act has excited much derision. Pitt proposed that power should be given to the Crown to give hereditary titles to the members of the Canadian Upper House. Colonial conditions were hardly such as to render advisable the creation of such titles; nevertheless, the object of the Government in proposing it was undoubtedly wise. In Grenville's words it was, "To give to the upper branch of the Legislature a greater degree of weight and consequence than was possessed by the councils in the old colonial governments, and to establish in the province a body of men having that motive of attachment to the existing form of government which arises from the possession of personal or hereditary distinction." In Canada, no less than in the old American colonies, the root of political difficulties lay in the fact that a democratic Legislature was confronted with a Governor autocratic in theory, aristocratic by traditions and associations. We are familiar with the various forms of "influence" which, in England, bridged the gulf between the old system of government and the new. The want of a genuine aristocracy had

been one cause of the American Revolution; and British statesmen were certainly not wrong in aiming at supplementing this defect in Canada. It was, however, easier to will than to accomplish. Dorchester, from the first, advised that the *seigneurs* should be attached in every possible way to the British Government. Unfortunately they were, for the most part, poor; and the feudal system of tenure, without the military obligations connected with it, afforded few points of contact between the lords and the *censitaires*, who to all intents and purposes resembled English copyhold tenants. A real source of grievance to the Canadians was the purchase of these estates by Englishmen, and the more rigid enforcement of legal rights. The sudden disbandment of the Canadian regiment, raised for the Indian war in 1764, left behind it a feeling of bitterness, which the well-meant efforts of the British Government were not able altogether to remove. Moreover, considerable grants of land to the impoverished *seigneurs* would have been necessary to make them any real check to the progress of democracy.

In this state of things the Assembly fell more and more under the domination of professional men, who had sprung from the class of *habitants*. Although the general level of elementary education was lamentably low, opportunities were not wanting for the more clever members of a family to receive an advanced education. Such an one inspired a blind belief in his kinsfolk and neighbours, who themselves might not be able to read or write. The qualification of electors had been left to the Canadian authorities; and, though the suffrage might appear extensive according to English standards, any restriction of it would probably have kept out the *habitants*, whom it was the object of the Act to enfranchise. But, though the result may have been inevitable, it was none the less unpleasant to the British Governors. One after another, they record the same experience. So early as 1800, some years before the publication of a French newspaper (which is sometimes spoken of as the date from which troubles began for the British Government), we find the Lieutenant-Governor, Milnes, writing "Very few of the *seigneurs* have sufficient interest to ensure their own election or the election of anyone to whom they give their support.....and the uneducated *habitant* has even a better chance of being nominated than the first officer under the Crown." On the whole, however, the relations between the Governor and the Assembly were satisfactory until the time of Craig. In 1810, according to that official, the Assembly consisted of six petty shopkeepers, a blacksmith, a miller, fifteen ignorant peasants, a doctor or apothecary, and twelve Canadian *avocats* and notaries, besides "four so far respectable people that at least they do not keep shops." Ten Englishmen completed the list. "There is not one person coming under the description of a Canadian gentleman among them."

Nor was it only in Lower Canada that indignant Governors espied the

cloven hoof of democracy. Upper Canada had been peopled by British soldiers and American loyalists, a race that might have been expected to stand by the mixed system of government to which they were accustomed. Yet from Upper Canada the active Lieutenant-Governor, Simcoe, reported that the general spirit of the country was against the election to the Assembly of half-pay officers, and in favour of men who dined in common with their servants. The rulers of the Assembly were active and zealous for particular measures which were soon shown to be "improper or futile."

Dorchester resigned in 1795 on the ground that he did not agree with the policy of the Government "to divide and subdivide and to form independent governments instead of consolidating, as is done in the United States." Separate governments had been carved out of Nova Scotia for New Brunswick and for Cape Breton in 1784; and Prince Edward Island also had a separate Lieutenant-Governor. Dorchester resented the practice of the home authorities in holding direct communications with Simcoe. No subsequent Governor could speak with the authority of Dorchester; and henceforth the affairs of the two provinces ran in recognised separate channels. In Lower Canada the difficulties in the way of government came to a head during Sir James Craig's term of office, which lasted from 1807 to 1811. Craig was an honest but obstinate soldier, slowly sinking under an incurable malady. No man was less fitted to the *rôle* of constitutional governor. He sought to cut the knot which he was powerless to untie. George Ryland was sent on a secret mission to England to obtain, if possible, the abolition of the Assembly. Ryland not unnaturally found the English ministers, Liverpool and Peel, "weak, very weak," and failed in his main object; though he obtained more sympathy for his proposal to curb the independence of the Roman Catholic Church. To long-suffering English politicians Craig's demand for a distinct enunciation of the principle that Canada was not to be governed by the House of Assembly seemed very indiscreet. Moreover, the imminence at this time of war with the United States dictated a policy of conciliation with regard to the Canadians. The new Governor (1811), Sir George Prevost, was in every way the opposite of Craig; and the manner in which the Canadians contributed their share to the defence of the Empire in the American War caused a temporary improvement in the relations between the Government and the people. One cause of future friction between the Assembly and the British Government was fortunately as yet lacking. It was not until 1818 that the offer of the Canadian Assembly to undertake the full discharge of the civil service was accepted. Down to that time, the revenue from the fixed customs duties and the sale of the public lands had been largely supplemented by grants from the Imperial exchequer. This dependence on the mother-country was no doubt a source of security to the British

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the way of the British authorities was the same in Cape Colony as in America. An intensely aristocratic social system found itself confronted with a community which, whatever had been its political condition, was intensely democratic. Englishmen of the type of the governing classes of the eighteenth century found it difficult to associate with the tradesmen and farmers of Cape Colony, although feminine tact might sometimes bridge the chasm. Macartney's stay in the colony was brief; and unhappily Sir George Yonge, who succeeded him at the end of 1799, after General Dundas had acted as Lieutenant-Governor for about a year, laid himself open to grave charges of corruption. Upon investigation at home, he was acquitted of personal bribery; but the state of things revealed at the enquiry was discreditable to his government.

The story of the reduction of the Dutch possessions in India and of Ceylon is dealt with elsewhere. In the further East, Malacca was taken in 1795, and Amboyna and the Banda Islands in the following year. The year 1796 also witnessed the reduction in South America of Demerara, Essequibo, and Berbice; Surinam and the island of Curaçoa were not taken till three or four years later. The alliance of Spain with France cost the former country in 1797 the island of Trinidad, the accidental burning of the Spanish fleet preventing any resistance. In Hayti alone the British attempts met with failure; and they were abandoned in 1798. Subsequent events in the island, and the fate of its able negro ruler, Toussaint L'Ouverture, have been described in a previous chapter. Sweden and Denmark lost their West Indian Islands in 1801. The French alliance proved a costly connexion for countries with over-sea possessions.

In the West Indies throughout this period there existed a variety of forms of government. So long as the negro was deemed a mere chattel, so-called popular government was possible in these islands in a degree which has become impossible in later times. Thus we find Lord Castlereagh writing in 1809 of Jamaica, "The pretension of the Assembly to all the rights and privileges of the House of Commons is quite absurd; they have no other privileges than those naturally arising out of and connected with the colonial and limited purposes for which, by the act of the Crown, they have been created. The control of the army does not belong to them." Side by side with the constitutional *régimes* of Jamaica and Barbados were the purely military governments of the islands conquered during the war. Thomas Moore was the governor of St Lucia before its restitution to the French, and Thomas Picton of Trinidad. The case of Picton in Trinidad is especially noteworthy. His instructions were, for the present, to administer Spanish law in both civil and criminal cases. Under the Spanish law torture was permissible; and it was proved that in the case of a Spanish girl a slight form of torture had been employed. Public opinion in England was lashed into a frenzy against the "blood-stained tyrant"; and Picton became the subject of a criminal indictment.

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Carrel, the great Liberal journalist of the July monarchy, claims Napoleon, on the ground of the Longwood conversations, as the friend of the Republic which he overturned. Quinet sings of him as of some vague and romantic embodiment of the democratic spirit:

> *"J'ai couronné le peuple en France, en Allemagne;*
> *Je l'ai fait gentilhomme autant que Charlemagne;*
> *J'ai donné des aïeux à la foule sans nom;*
> *Des nations partout j'ai gravé le blason."*

The heir of the Napoleonic House, Louis Bonaparte, son of the ex-King of Holland, knew well how to exploit the democratic elements in his uncle's career. In 1831 he was secretly negotiating with Republican leaders in Paris; in 1832 he published a statement in his *Rêveries politiques* that his principles were "entirely republican." In 1839 a slender volume came from the same pen, entitled *Idées Napoléoniennes*, which contained the whole essence of the exilic literature and the whole programme of the liberal Empire. The *Siècle*, a Bonapartist organ, spoke in 1840 of "the sublime agony of St Helena, longer than the agony of Christ, and no less resigned"; and in the haze of sentiment men lost sight of the elementary facts of Napoleon's career. "The thought of Napoleon at St Helena," say the editors of the official *Correspondance* (vol. xxix), "is a thought of emancipation for humanity, of democratic progress, of the application of the great principles of the Revolution"; and this was the pretext and apology for the Second Empire, the Government which, beginning with a cannonade in the Boulevards, ended with the capitulation of Sedan and the loss of Alsace and Lorraine.

Exile is in itself a form of martyrdom; and the exiles of Longwood ate their bread in genuine sorrow. As Las Cases remarked, "The details of St Helena are unimportant; to be there at all is the great grievance." A little company of French gentlemen and ladies, accustomed to the stirring life of a brilliant capital, found itself pitched on a desolate island, far from friends and home and all the great movement of the world. The attendants of Napoleon were not cast in the stoical mould; and, even if considerations of policy had not been involved, temperament would have inclined them to exaggerate minor discomforts, to strain against the restrictions of the governor, to shudder at the rocks and ravines, to condemn the rain when it was rainy, the sun when it was sunny, and the wind when it was windy, to compare the sparse gum-trees of the Longwood plateau with the ample shades of Marly and St Cloud, and the rough accommodation of the Longwood house with the comforts of a well-appointed Parisian hotel. To a man like Napoleon, whose whole soul was in politics, seclusion was a kind of torture. He had no administrative occupations to absorb his energies as had been the case in Elba; and "time," to quote his own bitter phrase, was now "his only

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gratify his taste for books and newspapers and music, and he might ride or walk outside the radius with a British officer in attendance.

These are not the provisions of an inhuman Government; and the man who was sent out to administer them was not inhuman. Sir Hudson Lowe, who assumed sole charge of the island on April 14, 1816, was an officer with a respectable record, though not one which would be likely to commend him to Napoleon. He had led a regiment of Corsican rangers, participated in the siege of Toulon, and brought the news of Napoleon's abdication to London. In five stormy interviews, all held within the first four months of Lowe's arrival, Napoleon poured out the vials of his wrath upon the luckless governor, whose chief crimes consisted in his refusal to extend the twelve miles' limit or to forward a letter of complaint to the Prince Regent save through the ordinary ministerial channels. After this, Napoleon never suffered the "Sicilian thief-taker" to approach him, or attempted to revise his first and hasty estimate. It may be conceded that Lowe was a martinet, that he was deficient in graciousness and tact, and that he ultimately came to suffer from a mania of suspicion. To be a good regimental officer is one thing, to discharge a delicate political mission is another. Lowe was full of loyal punctilio. The home Government, with almost incredible pedantry, had insisted that Napoleon should be refused the Imperial title and known only by the designation of General Bonaparte. A wise governor would have taken good care to minimise the effect of so stupid a regulation as soon as he had ascertained that it was violently objected to. Lowe on the other hand administered the rule with military exactitude. He intercepted a book from Europe because it was directed to "the Emperor," and recommended the officers of the 20th regiment to decline a copy of Coxe's *Life of Marlborough* presented to them by Napoleon during his last illness because it contained the Imperial name on the title-page. So wondrous an exhibition of obtuse literalism has rarely been afforded. But there was no inhumanity in Lowe. He was genuinely solicitous for the creature comforts of the exiles.

It was, however, part of the policy of Longwood to court martyrdom and to advertise woes. When Napoleon failed to obtain a relaxation of the twelve miles' limit, he declared that he would not ride out at all; when he was reminded of the need of economy, he ordered his plate to be broken up, as if the wicked gaoler had driven him to starvation's brink. On October 9, 1816, some new and more stringent regulations arrived from England, which had probably been suggested by intelligence received in London in the previous August, to the effect that three hundred men had set sail from Baltimore to attempt a rescue. The limit was contracted to eight miles, and the sentinels were drawn in close to the house at sunset, so that the exiles were deprived of the full enjoyment of the coolest and most delicious hours of the day. The new restrictions (which were subsequently relaxed) were certainly

Sainte-Beuve, the finest of critics, has recognised the literary quality of the St Helena writings, the prompt imperious brevity, the exquisite clearness, the occasional beauties of sentiment and eloquence. It is natural to compare the record of the Egyptian and Syrian campaigns, where Napoleon depicts himself at once as soldier, statesman, and discoverer, with another splendid fragment of military autobiography, the *Commentaries of the Gallic War*. The two stories have the same lucidity, the same gift of perspective, the same command of professional technique, the same wide scope of observation, the same close adherence to detail. Caesar has more formal eloquence; Napoleon has more romance, more passion, more vibration. But, while each wrote to defend his policy and his military reputation, Caesar had no interest in concealing or confusing the truth.

Yet the formal memoirs, however strongly conceived and carefully executed, are the least interesting portion of the St Helena retrospect. Napoleon was a voluble talker; and, when the long tension of his political career was relaxed, his restless mind poured itself out upon all the incidents of his wonderful life. It is true that he desired a certain reading of his career to be accepted, and that he more than once prompted his faithful followers to record his remarks; but he was far too mobile to maintain a steady pose. He was not a chilly man sitting down to falsify a dull life, but a child of nature, frank, passionate, impetuous, full of sudden turns and ruses which carried him far beyond the boundaries of his set apology. The schemer's mind, constant to its old habit, schemes for the past, as it had formerly schemed for the future; and we cannot tell whether the plans which he attributes to himself had actually been in his mind. A man of such a temperament could talk neither sober autobiography nor sustained deceit. And so, side by side with the official legend, the *Moniteur* of exile, deferential to a moral judgment whose power it uneasily apprehends but never understands, we have the fragments of spontaneous talk, sometimes shrewd and lively, sometimes grand and eloquent, sometimes brutal, sometimes kindly, always and through every mood vivid and unmistakable.

Napoleon shrewdly saw that the forces of reaction were spreading over Europe, and that the yoke of the Bourbons would soon become intolerable to France. Some day the King of Rome would have his chance. In the sombre gloom of clericalism and privilege and military impotence, men would point back to the bright vision of a Liberal Empire, which had been based on social equality and religious tolerance, which had made France the arbitress of Europe, and Paris the centre of European civilisation. Then France would turn to her great, calm, and beneficent Prometheus, would gather his lightest words and descry his true intentions. She would learn that he alone had understood and adored her; that he loved peace, but was driven by wicked foreigners into ceaseless war; that, although he had showered golden gifts upon her, his

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machinations of the English, to the intrigues, the hopes, the pretexts of the Bourbons." The interview of Bayonne was not an ambush but "an immense *coup d'état*." He had never mingled in the intrigues of the Spanish Court, had never broken engagements with the Spanish princes, and had used no duplicity to draw them to Bayonne. "When I saw them at my feet and could judge by myself of their incapacity, I pitied the lot of a great people, and seized the unique occasion which fortune presented me to regenerate Spain, to rescue her from England, and to unite her entirely to France." Again, if he had been successful in crossing the Channel, he would have founded independent republics in England and Ireland. "I would have dethroned the House of Hanover, abolished the nobility, proclaimed liberty, fraternity, equality.... Your *canaille* would have been on my side, knowing that I am a man of the people and that I spring from the people myself." His designs in Italy were equally liberal. "I purposed, when I had a second son, as I had reason to hope, to make him King of Italy, with Rome for his capital, uniting all Italy, Naples, and Sicily into one kingdom." The three great obstacles to Italian unity had been the foreign dynasties, the spirit of locality, and the residence of the Pope at Rome. In the short span of fifteen years all had been removed, "broken by the great movement of the French Empire." The Pope was at Fontainebleau; and, but for the Russian campaign, the head-quarters of the Catholic religion would have been permanently transferred to Paris. All had been prepared for the proclamation of Italian independence upon the birth of the second son. It was settled that Prince Eugene should act as Viceroy during the minority.

It was true that mistakes had been made in Germany. The King of Prussia should have been deprived of his kingdom after Jena. "After Friedland I should have taken Silesia and given it to Saxony. Had I done this, given a free constitution, and delivered the peasants from feudal anarchy, they would have been contented." He thought that he should have declared Hungary independent, that he should have subdivided Austria, that he should at least have "devoured" Prussia before starting on his Moscow campaign. Still, the Confederation of the Rhine and the kingdom of Westphalia, the grand-duchy of Warsaw and the crippled state of the Hohenzollerns, were sufficient evidence of French predominance beyond the Rhine.

The problems of the Balkan Peninsula, of Asia, Africa, and America had not been solved; and here it was necessary to acknowledge some failures and errors of judgment. The idea of the policy, however, was large, magnificent, and liberal. Egypt was the key to the East; and France, once mistress of Egypt, would have been able to unlock the treasures of India. She would have pierced the Isthmus of Suez, and, in alliance with Russia, Persia, and the Mahrattas, broken the British power in the East. "Egypt once in possession of the French, farewell

ravages of yellow fever. He had found it necessary to permit the slave-trade and to maintain the institution of slavery in Martinique and the Île de France, but these decisions had not disturbed the course of events in San Domingo. Slavery was founded upon antipathy of colour; and antipathy of colour could only be overcome by polygamy. He had therefore held several consultations with theologians with the view of preparing a measure to authorise polygamy in the French colonies, "restraining the number of wives to two, one white, one black." This was the solution which the legislator would be bound to adopt, whenever it should be thought desirable to enfranchise the blacks in the French colonies. The experiment was never made, for the naval war stripped France of her islands; yet in the Continental System a compensation was provided, which in time would have made Europe independent of colonial imports. In two or three years beetroot-sugar would have been sold as cheaply in the French market as the cane-sugar of the tropics.

Nor was this the only compensation for the temporary hardships of war. Napoleon had made France the centre of a federal empire; and it was his intention that Paris should be the capital of Europe, "unique, incomparable," adorned with all the treasures of art and science, the seat of the Papacy and of the College of Cardinals, the centre of the foreign missions, the home of the University of France, the seminary of all the ideas and thoughts which were to sway the course of European civilisation. In order "to facilitate the fusion and uniformity of the federal parts of the Empire" he had designed, in the Institute of Meudon, a school in which all the princes of the Imperial House would have received a common education. Each prince would bring with him "ten or twelve children more or less of his own age and belonging to the first families of his country," with results which might easily be predicted. French principles would take root in all the dependencies; Italy, Spain, Germany, and Holland would attach themselves more closely to the French connexion; foreign sovereigns would clamour for the admission of their sons; and, looking back upon the friendships of early youth, the rulers of Europe would be more likely to keep the peace.

Great as had been his ambition, his course was untarnished by crime or corruption. Surveying the past from St Helena he declares that he is astounded at his moderation. After one or two preliminary volleys, he ordered the guns of Vendémiaire to be charged with blank cartridge. Nothing would have been easier for him than to have procured the death of the French and Spanish Bourbons; yet the temptation was rejected. He would probably have pardoned the Duc d'Enghien, if Talleyrand had not intercepted a letter in which the Duke offered his services to the new Government of France. "My secret thought," he said on one occasion, "was to give him the Constable's sword so as to be quit of the *émigrés*." He had never taken a bribe; he had never bought a vote or a party by

The Imperial system might be accused of having stifled liberty and injured education. To such allegations Napoleon replies that his work was a torso, not a statue. The extreme centralisation of the prefectoral system was essentially transitional, "a weapon of war," and would in time have given way to "our peace establishment, our local institutions"; and here he sketches out a system of local government by unpaid magistrates somewhat after the English plan. Again, the conscription, far from harming education, was designed to benefit it. "Conscription is the eternal root of a nation; it purifies morality and trains habits"; and the virtues engendered by the military life would in time have been fortified by the instruction given in the regimental schools which the Emperor had planned in order that the conscripts might continue their studies. He had also devised a scheme for the improvement of clerical education. The elements of agriculture, medicine, and law were to be added to the theological course provided for those intending to take Orders. Dogma and controversy would insensibly have become rarer in the pulpit; and, while the *curé* would preach "pure morality" in church, he would be in a position to give useful counsels to his parishioners on practical affairs.

He denied that the Senate was servile; he asserted that the Tribunate was useless and expensive, and that its suppression was sanctioned by the public voice. "*J'ai toujours marché avec l'opinion de cinq ou six millions d'hommes.*" There could be no doubt as to the solidity and excellence of his finance. "Never," he said to Gourgaud, "has anyone brought more order and more light into financial accounts than I. In part my good measures are due to my knowledge of mathematics, to my clear ideas on everything." At another time he spoke of his Code as the "arch of salvation," as his "title to the benedictions of posterity." These were legitimate vaunts; and the noblest monument to his memory, as he once told Montholon, would not be a catalogue of the exploits of "the most audacious soldier in the history of war," but a collection of the thoughts which he uttered in the Council of State, and the instructions which he issued to his ministers, and a list of the public works which were undertaken during the period of his rule.

There were moments in which bravado and apology were cast aside and he saw himself and the world truly. "None but myself ever did me any harm," he said once to O'Meara, "I was my only enemy"; and again to Montholon, "I stretched the cord too much. I could not wait to finish the Spanish business before I crossed the Niemen." But of contrition for bloodshed and treasure spent and lives broken there is no trace. He broods over his failure and tries to explain how he should have averted it, now saying that he should have shot Fouché after Waterloo and sent twenty deputies to the scaffold, now that with a man like Turenne to help him he would have made himself master of the world. In unguarded moods he shows how little he cared for the principles

of the Liberal Empire. Had he conquered at Waterloo, he would have sent the Chambers packing. If he were back again in France, he would close the University and entrust the education of the country to the priests. "I too have suffered from the mania for propagating the sciences, but my experience has corrected it. We want cultivators, workmen, manufacturers, not philosophers."

But a reconciliation of his inconsistencies is not to be attempted. As the mood seized him he could be brutal, cynical, obscurantist; and who can keep the chart of his moods and thoughts? There is not a noble sentiment which he will not pitch overboard when the scowling is on him; there is hardly a proposition which stands unrefuted in fused effulgence of his contradictory apologies. At one moment proclaims his beneficence, and then suddenly the notes of the anthem are stopped, and we hear the chagrined cry of the hemer laying the blame of failure on his confederates. On the e bore his hour of trial with a certain noble courage, cheering ondent and irritable companions, and himself setting an example nute work. But, as hope after hope went out and disease gained constitution, his giant energy flagged. At the opening of 1821 clear that he had not long to live; and after the end of March cely rose save to change his bed. The disease which slew him was ne which had slain his father, cancer in the stomach; but he bore in with patient fortitude and full knowledge. When Bertrand him what conduct his friends should pursue and what end they aim at, he answered with fine magnanimity, "The interests of and the glory of the Fatherland. I can see no other end." The nt sounds caught from his lips as he expired on May 5, 1821, are have been, "*France, armée, tête d'armée, Joséphine*"; and so in dst of the great hurricane he passed out of life, charging at the his ghostly legions. De Tocqueville has written his epitaph— as as great as a man can be without virtue."

of a conservative temper who were spectators of the downfall of pire were apt to see little in Napoleon's career but a superb and nt explosion of human energy, the devastations of which it would luty of subsequent generations to repair. To them he was merely t and the greatest of the Jacobins, the upstart captain of the ionary and militant democracy which had overturned the settled ions of France and thrown its insolent challenge at the old order pe. Others, taking longer views of history, have been principally ed with the fact that Napoleon was a powerful dissolvent of l barbarism. They think of the wars of the Empire, not merely eat effusion of Frankish chivalry, inexhaustible, as the Crusades ves, in audacious and pathetic extravagance, but also as one of isive episodes in the secular duel between the Latin and the

Teutonic nations. For the conquests of France involved the acceptance of the political system which had been fashioned in the fires of revolution; the obliteration of outworn boundaries; the destruction of the social groupings of the feudal age, noble caste, trade guild, religious order; the extension of a system of private law, as hostile to the Teutonic principle of free association as it was favourable to the Roman principle of State omnipotence. To others, again, the true significance of Napoleon lie. in the fact that he made possible the national movements of the nineteenth century. He is the herald of Italian unity; and, alike by reason of the things which he destroyed and by reason of the efforts which he provoked, he takes rank as one of the makers of Germany. For the old aristo federalism of the Dutch he substituted the principles which gov modern kingdom of Holland. It was one of his many policies the national and inextinguishable aspirations of the Poles; an of hope spread even to Serbs, Roumans, and Greeks, communicat mighty movements of so many men, and the sudden catastrophe ancient things. If South-American democracies value their indepe statues of the man who destroyed the prestige of the Spani Portuguese monarchies might be raised, without an excessive str historical propriety, in the squares of Valparaiso or Buenos Ayr

This, however, is not the aspect which chiefly impressed Englis That dauntless and dogged generation, who never cried craven and drew breath, viewed Napoleon, not with complete justificatio also not without justification, as the tyrant who respected no stopped short of no ambition, and flinched before no crime. thought of him not as the creator of nationalities (for he created his lifetime), but as the destroyer of peoples and the enemy of tutional freedom all over the world. As the men of the fifth c regarded Attila the Hun, so, with few exceptions, did the contemp of Pitt and Liverpool regard Napoleon. The thunders of the stor now long died away; and we see that some precious seeds were born the hurricane. Nor did they fall upon the continent of Europe The maritime and colonial power of England was fortified by which gave us Ceylon and the Cape of Good Hope, promoted the tion of Australia, and led to the destruction of the Mahratta in India. The sea-power of France, broken by the disorders Revolution, was finally shattered by the wars of the Empi impressive was the aggrandisement of England beyond the seas th writers have regarded the augmentation of the British Empire most important result of Napoleon's career.

What was his legacy to France? To the extravagan of h projects France owes the loss of the Rhine frontier, which had b earliest conquest of the revolutionary arms, and the immemorial a of French diplomacy. That he terminated the romance of the Rev that he founded a government above party, that he healed the s

"C< 9 @9% 42B' < 2B0 4"<B' AD 28A0<5' '5 @ 40 <N8B4 "8 4BB' &
B<0 4 0 "9 5' 5' 4@>2 =0<B-<B' <G<2' C?' 9 5' <2<; <5)' '9 5' 8RB2"< S
<2< -? ' 42@< =<5' "9< 4A B' @ ; A0<" 2' 42B' "9< = B< <A2"4" 4' '9< '
B<5' '2 ' 945' 42?' - <4"' ; B<; ' < ; ; ; "?@ ' ; <2' <@< G<B' 5 ' ; :@9')
;' 4'5 2-0< 9:; 42' ; 2B)' 5' <@ 2 ; @0<- 504" 2' 5' A; ' " ' @ " @ 5; %
<G<2' - 42" 2-' 9 5' =2' 455:; A" 25)' %45' "' = 5< ' 4' - G< 2; <2"'
<5" 2-' :A 2' "9< 5:AA "' ' "9< A<4542" ?' " ' A ; "< "9< - ="9' '
" =25 C?' - G 2-' 9 -9' A "<@" 2' " ' ; 42: 4@": <5' g % 45' "' 5"4"<5; 42m
0><" ' <DB:B< "9<; 42: 4@": <5' ' "40?' 42B' < ; 42?' ;' "9< ' <2@9'
;4><" g % 45' "' 2 "' @9 ; < @40 " ' 5:AA 5< "94"' : A< @ :0B' C< ; 4B<
2B<A<2B<2"' ' " A @40 A B:@<-' ! @ 40 5;' 94B' C<<2' "9< A< 0 =9 @9%
2' "9< <?<5' ' "9<; BB0< @0455<5% 94B' :5" <B' "9< 25:04"<F 42B' ! @ 40 5"5
@42' 2B' 0 ""0< @ ; "' 2' "9< G 0 B<)' 4A 0< 2' C<0 <G<B' 2' "9<
;4- @ ' A G4"< A A< "?F 42B' "' =45' 0< "' ' "9< ! <@ 2B' ; A <" '
0<-40 5< " 8< :2 25.' 5' <0 - :5' A 0 @?' 94B' 55:<5' = B<0?' B < <2"'
;' "9 5< =9 @9' 9< 2" <2B<B' ' 4' 9: @9% A 2@9<B% A 0 @<B% 42B' C:00 <B'
C?' "9< ! "4" <% =45' 2<G "4C0?' "9 =2' C4@>' :A 2' "9< 5: 8 "' ' "9< $4A4@?)
' "9< <G 0:" 2% C?' @ 2 5@4" 2-' "9< 9: @9' =B5% B<5 < ?<B' "9<
400 @42 5;' 9<0 G<B' C?' ! "' (: 5' 42B' 55:<"% 4A<B< 2' A @22@ "8' "94"'
; B<; ' ; ' ' 0" 482"42 5; ' =9 @9' =4-<5' 4' "; <B<55' =4 ' 4-4 25"' "9<
G< ?' :2B4" 25' ' "9< B8 @ 400@' ! "4" <)' 9< <G<B:" 2' C ><' = "9'
<0 8 2' 42B' 5 =<B' "9< 5<<B5' ' ; 4 "? B ;)' 4A 0< 2' <DA0 "<B' "% 42B'
A ; "<B' 4"' 2@<' @0< @40' AA ":2 5; ' 42B' 0" 4; 2"42<a<4 (' C<' B<4'
' 4' G45"' @ ; ; :2 "?% -42 5<B' 2' 4' - B' A042' 42B' " 4 2<B' " ' 4' B< 2 "<
<2B% = 00' 40=4?5' @ 2" 2:<" ' 45@ 24"<' ; 2B5' ; A4" <2"' ' "9< <<' 42B'
; 5@<0042<:5' ; G<; <2"5' ' 9:; 42' 4@" G "?)' 2' 4""<; A" 2-' " ' @ 2" 0
400 "9< 5 : @<5' ' 5A ":40' 42B' 2" <00<@":40' 2 0:<2@<' 2' ' 42@<% 4A 0< 2'
<554?<B' 4' "45>' C<? 2B' "9< @ ; A455' ' 42?' ; 42' ' 42?' - G< 2; <2")' 9<
2" < 5 ' 0 C< "?' 42B' 4:"9 "?' ; :5"' 2<@<554 0?' 59 "' ; ' 2-<" ' 4-<
42B' ; ' @@45 2' " ' @@45 2)' %9<2' 4A 0< 2' - 45A<B' "9< 9<0; ' '
!"4"<% ' 42@<' 2<<B<B' 4' 5A<00' ' 5" 2-' - G< 2; <2")' 9 5' 9<' -4G<' 9< %
42B' ; <C<5 B<5)' <' -4G<' 9< ' 4' 5@9<; <' ' <B:@4" 2' 4; <B' " ' ; <<"' "9<'
2<<B5' ' 4' ; 0"4 ?' B<5A " 5;)' <' <5" <B' "9<' 4B; 2 5" 4" G<' @<2" 40 m
54" 2' '"9<' ! 8!' #= "9' "9 5<' ; A G<; <2"5' = 9 @9' "9<' <G 0:" 2'
94B' <2B< <B' A 55 C0< 8' @<2" 40 54" 2' 5@ <2" @% :2 ; % 400 A< G45 G<%
:2" 4; ; <00<B' C?' "9< 5A '" ' 0 @40 "?% @45"<% ' @ A 4" 2' F 42B' ; <2'
"2:2<B' 2' "9< 4A 0< 2 ' 5@9 0' 94G<' = ><B' "9<; 4@9 2<' ' <2@9'
- G<; 2<2"' <G<' 5 2@<)

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ʻ 5<0<@"<Bʻ 0 5"ʻ ʻ 5 : @9ʻ = >5ʻ 45ʻ = 00ʻ C<ʻ : 2Bʻ -<2< 400?ʻ 2<" : 0ʻ = "9ʻ 8 ! Bʻ " ʻ "9<ʻ 5 : C <@" ; 4""<ʻ ʻ'"= ʻ ʻ ; <ʻ @94A"< 5ʻ 95ʻ "9 5ʻ G 0: ; <)

($!&

< <&)&ʻ 4 2&ʻ $)ʻ 42Bʻ 4 5" <&ʻ)ʻ <A< " <ʻ ; <"9 B N : <ʻ B<ʻ J9 5" <ʻ ; B< 2<ʻ <"ʻ @ 2"< ; A 4 2<ʻ B<ʻ 04ʻ ' 42@<)ʻ $4 5)ʻ K W ʻ 2<ʻ G 0)ʻ ?<4 0?E)ʻ 4"40 - : <ʻ B< J 5" <ʻ B<ʻ ' 42@<)ʻ KU G 05)ʻ $: C0 59<Bʻ @B"" - : <ʻ ʻ = >5ʻ 2ʻ ' <2@9ʻ 5" ?ʻ 2ʻ "9<ʻ C0 "9<N : <ʻ 24" 240<&ʻ $4 5)E 4C92422&ʻ)ʻ)ʻ 42Bʻ %4 "5&ʻ)ʻ c 2<00<2> 2B<B< ʻB< : "5@9%ʻ <5@ B "<&ʻ "9ʻ<B2)&ʻ C?ʻ)ʻ !"< 2BC 'ʻ)ʻ "" 2 - <2)ʻ K W ʻ Y"9ʻ<B2)ʻ 2ʻ A - <55)E 4 B 2< & !)ʻ)&ʻ 42Bʻ : 2 -< & 6)ʻ)ʻ 2" B : @" 2ʻ " ʻ 2 - 0 59ʻ 5" ?)ʻ Bʻ <B2)ʻ (2B 2)ʻ K WZ) / @9< 5<2&ʻ ')ʻ C0 - 4A9?ʻ ʻ 4A 0< 2)ʻ (2B 2)ʻ KW) (2 2C 5 &ʻ)ʻ ! 4 - - ʻ B ʻ : 24ʻ C0 - 4B4ʻ 4 - 24"4ʻ B<00ʻ A @4ʻ 4A 0< 2 @ !) B<24&ʻ ; <& 42Bʻ $4 5)ʻ K WZ)ʻ 2ʻ A - <55)E ! : C <@" 2B<Dʻ ʻ"9<ʻ B< ; ʻ % >5ʻ 4BB<Bʻ " ʻ"9<ʻ 0 C 4 ?ʻ ʻ 8 <ʻ " 59ʻ 5<N ; 2ʻ "9<ʻ ?<4 5ʻ K K KW)ʻ B "<Bʻ C?ʻ)ʻ)ʻ ' "<5@ : <)ʻ ! ʻ G 05)ʻ (2B 2)ʻ KW)ʻ M ! <<ʻ G 0)ʻ &ʻ : 2B< ʻ ' 42@<.ʻ 5" ?.ʻ 4A" < 2)E 6 ʻ ʻ ! ʻ : A<& <2< 40ʻ (4G 55<& 5<& % <C< Eʻ 0 "4 ?ʻ 5" ?ʻ $ 90< & <"@)Eʻ 4A 0< 2ʻ ' : 2 < Eʻ <4"ʻ "4 2ʻ : 22 2 - 9 2Eʻ "40?ʻ 6 925" 2Eʻ < ; 42? ' 59< Eʻ ! =<B<2& <"@)ʻ 4 2E)

$)

& / $ '

0 5 2&ʻ ! ʻ)ʻ 5" ?ʻ ʻ : A<&ʻ KY W K KU&ʻ K ʻ G 05)ʻ B 2C : - 9)ʻ K Z)ʻ <B =&ʻ)ʻ)ʻ 9 " >ʻ B<5ʻ D D [ʻ 649 9 : 2B< "5)ʻ ʻ G 05)ʻ 0" 24)ʻ K K)ʻ 2m " 2 : <Bʻ C?ʻ)ʻ <2" : 2ʻ ʻ G 05)ʻ 0" 24)ʻ K W) 4A< 0 - : <&ʻ)ʻ)ʻ)ʻ (J 2 A<ʻ A<2B42"ʻ 0<ʻ@ 25 : 04"ʻ <"ʻ J< ; A <ʻ B<ʻ 4A 0< 2)ʻ K ʻ G 05)ʻ $4 5)ʻ K W ZK) 8? <&ʻ)ʻ)ʻ ʻ 5" ?ʻ ʻ B< ; ʻ : A<)ʻ ʻ G 05)ʻ (2B 2)ʻ K)ʻ 0)ʻ & KYW K KZ)E < 8 2 &ʻ)ʻ)ʻ ()ʻ 42B9 : @9ʻ B< ʻ <5@9 @9 <ʻ B<5ʻ < : A ! 5@9<2ʻ ! "44"<25?5"< ; 5ʻ : 2Bʻ 0 ! < 2< ʻ 0 2 <<2)ʻ Bʻ <B2&ʻ "" 25 2)ʻ K KW)ʻ 2 - 0 59ʻ " 4250)ʻ (2B 2)ʻ K Y)ʻ (4G 55<& e)&ʻ 42Bʻ 4 ; C4 : B&)ʻ \S 5" <ʻ - B2< 40<ʻ B : ʻ Gb8ʻ 5 <@0<ʻ 4ʻ 2 5ʻ : 5) K ʻ G 05)ʻ $4 5)ʻ K W KW K)ʻ 0)ʻ D& K KU)ʻ C0 - 4A9?)E 4942&ʻ)ʻ)ʻ 9<ʻ 2 0 : <2@<ʻ ʻ 5<4 A =<ʻ : A 2ʻ "9<ʻ ' <2@9ʻ G 0 : " 2ʻ 42Bʻ 2A <)ʻ ʻ G 05)ʻ (2B 2)ʻ K W) <C : 9 &)ʻ)ʻ <5@9 @9"<ʻ B<5ʻ ^< "40"< 5ʻ B< ʻ <G 0 : " 2)ʻ 4 ; C : -)ʻ K ZU)ʻ 2@><2& %)ʻ 45ʻ ^< "40"< ʻ B< ʻ <G 0 : " 2& B<5ʻ / 4 5< < @95&ʻ : 2Bʻ B< ʻ < < : 2 - 5 ʻ > <-<)ʻ ʻ G 05&ʻ 8 ;)ʻ K Z Y) $ 0 : - > 4 "" : 2 - & 6)ʻ G 2&ʻ <B "<Bʻ C?)ʻ 4A 0< 2ʻ)\ʻ <G 0 : " 2ʻ : 2Bʻ / 4 5< < @9) 45ʻ =4@9<2ʻ B< ʻ 50><)ʻ ʻ G 05)ʻ < 0 2)ʻ KW K) $ 55<0"&)ʻ ()ʻ : A4 5@9<ʻ 2240<2)ʻ : C 2 - <2)ʻ KYWU K)

Z)')' <' = 04 24 ?'42B' 8 0< 2 @' 4' KY W8K K)' 2B'<B2)' 4 ; '
< B- f)' ;)' C0>8 89?)E
!80B 55<0G')')' <5@ " <8"<'B<5'4@9"5892"22'6 9 ; 2B< "5'2 B'B<5'2<22a<92"<2'C 5'
4 ; ;' !"4 4<' B 5' C : a 8C<2' / 4 5< @95)' Y' 05)' < B<0C< -)' K Z)'
2-0>B'' " 4 504" < ' 'GRB5' (2B 28' K Z)
! BH')' J : A<'<'' 04' BGRB"""" 2' 42 8 <' KY W K K E)' G 05)' \$4 5)' K '
KW Z)
8 8"<A9<25(')')' : A<(' KY W K KU)' 0 2B 2)' K W)
%4<0 ! 42 9H %)' 45' ^<0"40"< 'B<' <G 0:" 2)' Z'G >' (<Aa -)' K Z Y)
%<C< (')' 00-< ; <C <' <5<9 < 4"<)' 2B'<B2)' (' K 'G "<)' (<Aa -)' K W)' 0)'
44G(' KYWY K)' C0 - 4A9?)E
%< 55(' 6)')' G)' %<0"-<5< @9"<)' B5)' X / 54 (' KYW K K)E (<Aa -)' K W)

9 ; &"' ' B D

< -<(')')' "<2<40 - <40 Y4C0<5' 00:5" 4" G<' ' B< 2' 5" ?)' D B)' K Y)
"<(')' !"44:2"4 < 2' <2<40 - <5' ' < -2 2-' < ; 0<5E)' (<Aa -)' K YY)
:G<00<' - 58B:<' <2B 40<)' Z 'G "<)' <='<B2)' \$4 5)' K U YY)

-\$:& - 0' '

4 "<25(')' ')' B<)' < 2<0' B<' " 4 "B5' BJ 0 42@<(' B<' " G<(' B<' 2<:" 40 "?(' B<' @ ;
; < @<(' <"<)8' B<A:"<' ' 25N2JB' A <5<2'" ' G "<)' "" 2-<2)' KYWK K K)'
0)' G2'@ 2"4 25' <'A< B' KYWY K K)E
3 ' 2AA ? ; <2" 4:' << : 8' B<5' A 2@ A4 :D' " 4 "<5(' <"@)(' B<A:"<' KY K' :5N2J4'
A <5<2'" Z' G "<)' "" 2-<2)' K)' "<)' % & 3' @ 2"4 2' "9<' A< B' KYWW'
K Y' (' '<@ ; "<B25 4'@9 2 0 - @40 42B' 40A94C<" @40 4C0<' '"9<' <4" <5'
<"@)' 2' "9 5' 42B' "9<' 4C G<' = >)E
9<' 5<@ 2B' 42B' ; <' :5< :0 <B " 2' '"9<' 4C G<' << 2<0 42B' ! : AA0< ; <2"E
=45' 55:<B' C?')' ')' 42B')' B<' 4 "<25' 2' 'G"B5)(' ' = 9 @9'G 05)' G G ; '@ 2" :2'
"9<' A< B' KYW K)' "< 2-<2)' K KY)
3 3' 42B')' B<)' :G<4"'' <@ : < 0' B<' " 4 "<5' BJ400 42<<(' <"@)(' B<A:"<' K ' :5N:J4'
A <5<2'" "<(' 2 (' K * KWf G 9'G(' K)E 9 5'@ <@ 2' =45'@ 2" 2 :<B'
C8 ! 440 < 4 B' : 94 B)' K 'G "<)' "8 - ;)' K KY Z)
4 "<25(' ')' B<(' 42B' :58(' 'H B<)' <@ : < 0' ; 42 : 0' B<5' " 4 "B5)' Y' G "<)' (<Aa -)'
K Z Y)
2 94 B(' ')' :G<4 : D' 5 : AA0< ; <2"5' 42' <@ : < 0' B<' " 4 B5' B<A:"<' KY K' :5N:J9'
A <5<2'" ' G "<)' "" 2-<2)' K W Z)' 4C0<' -<2B ' B9' < 2<0(' :G<4:'
<@ : < 0(' <'" :G<4 : D' ! : AA0< ; <2"5)' "" 2-<2)' K W 8)

0< @N(')' B<(' 42B' 6)' B<' <@ : < 0' B<5' "4 4 "B5' B<' 04' ' 42@<)' \$4 5)' K Z)' <='
<B2)' K)' 2' A - <55)E "<(' (' :' KYK K K E' G 0)' DG(' ! : AA0< ; <2"'
KYK K E' G 0)' DG (' "4C0<5' KYK K UE)
4 "<25(')' (' <@ : < 0' B<' " 4 "<5' <'" 2G<2"9 ; 5' @ 2@0 : 5' A4 ' 04' 255 <' 4G<@ 0<!'
A: 5542@ 5' <" 42-< <5)' KZ' G "<)' ! '" \$<"'<' 5C : -)' % ')' 2' A - <55)E
0)' X ' KW E' @ 2"4 25' K Y)' 8
<: ; 422(' ()' <@ : < 0' B<5' " 4 "<5' <'" @ 2G<2" 25' < 2@025' A4 ' J :" @9<' 4G<@ 0<5'
A: 5542@<5' <" 42-< <5(' B<A:"<' KY ' :5N:JB' 5' : 5)' 'G "<)' (<Aa -)' K W)

' ' ' ' '

<(')' "<'' <' B:' B '" B<' - : < <' <'" B<' A4 D' KY W K K E)' \$4 5)' K Y)
; "<')' B<' 5" <' -<2< 4"<' B<5' " 4 "<5' B<' A4 D' B<A:"<' 04' A :D' B<'
Y<5"A940<' " ' K K E)' KZ G 05)' \$42<' K Z W)' (<Aa8F)' K Z Y)
/ @ ! 8)')' B<(' 42B' ! @C < (')' !)' ')' 5" <' 4C -<<' B<5' " 4 "<5' B<' A4 D)' 2B'<B2)'
KU "<)' \$4 5)' K K K)' <='<B2)(' @ 2" 2 :<B' " ' K K)' Z' G "<)' :55<05)'
K Y)

/ +' $ * + , . & & YY

(< <CG <&) 5" <' B<5' @4C 2<"5' B<' J 2 AC' A<4B42"' 0<' @ 25204"' <"' J< ; A <) J
'G 05) $4 5) K Z Y)

! '

0< C" <:& /) <5@9 @C"<' " ; B' < 5"' B< '<2 A j 5@9<2' / <-<' ""2"< ' ' <B @9' B< ; '
55<2' : 2B' 4A 0< 2) (< Aa -) K W)
B425<= "a& /) G 2) 2"< 0455<2<' %< ><) 05) G& # @4 ; A4 -25 ' KYWWF
G 0) & "9 5<' 'K K KZ' G 0) ; & "94"' 'K K)E 2B' <B2) < 0 2) K U)
: ; 45&) $ <@ 5' B<5' <G<2< ; <2"5' ; 0 "4 <5' B ' EY 8 ' >' K KZ) KW G 05) 42B' 4"045)
$4 5) K K)
/ 4 : 50< & ') G 2& 42B' % < 0& 6') <' / <-<' G 2' KYW 'C 5' K K))& ; '" K ! ' / 4 "<2'
: 2B' $0 ! 2<2) / 4 05 : 9<) K ZK)
!@9 "a& '& %) G 2) <5@9 @9"<' B< ' / <-<' 2' : A4' 5< '" KYW) K ' A4 "5) (< Aa -)
K Y U)

!' =' =' ! A '

C0 "9<N2<' B : ' B<A '" B<' 04' - : < <:' 4"40 8<) W G 05) $4 5) K W)
$ 90< & 6' C0 8<@4' 9 5" @ ; 0F"4 5) ?5"< ; Z" 5@9<' <C< 5 @9")))C 5' a: ; '
! @90 : 55' B<5' 649 <5' K) 'G 05) 455<0) K Y W)
<A< " : ; ' B< ' 2<: < <2' / <-5-<5 B @9"<) 0B<2C : -) KW)

$ &' " $3' '

5<2&) -< ; < 2< ' 9 5" 5@9< ' 42B4"04 !) 8< <0B' 42B' (< Aa -) K)
' << ; 42&)) 9<' 5" @40 < 8"4A9?' >' 2 A<) B' <B2) C?' 6)) : ?)
'G 05) (2B 2) KW) 0) 2' @ 2"8 5' ; 4A5)E
$ <0<& & ()& <B "<B' C?) 5" @40 "045' ' B< ; ' : A<) D B) K W)
"9< "&) / 4 "<2' : 2B' ! > aa<2' 4 : 5' B< ' G4"< 0 ! 2B 5@6 <2' <5@9 @9"<' B< ' 0<"a"<2'
K '649 <) W"9' <B2) : 55<0B) 2) B)
!@9 4B< & ') "045' B<' B - 4A9 <' 9 5" N2<) $4 5) K W)
!A : 2< & /) 42B "045' a: ' <5@9 @9"<' B<5' ""<040"< 5' : 2B' B< ' 2<: < <2' l<")
B' <B2) C?') <2><) "94) K)
B40 (4C04@9<& $) "045' -<2< 40) $4 '" ' 5" A40E ' $4 5) K WZ)

$ ( )

!$ 22 & 4 @)

' : 2 < &) ^ : ' <D"> " >' B< ' / <5A 2B<Aa' 4A 0< 25') @9 G' ' 5"<) 8
<5@9) 0) W)E <224)
4A 0< 2' & <5A 2B<2@<' B<F 5 : G <' B<5' <: G <5' B<') ' ! 4 2"< B0" <) 'G 05)
K U Y) ! : AA0< ; <2"} B "<B' C?') B : ' 455<) $4 5) K Y)
' (<"" <5' 2<B "<5' B<' KYWW K K E) B "<B' C?' ()' 0 <@<5" <) 'G 05) $4 5) K WY)
3 ' (<"" <5' 2BB "<5' B<) B "<B' C?' (' B<' " 22<) $4 5) K W)
< ; < <5' 0<"" <5' 2BB "<5' B<) B "<B' C?' 54 ; <) $4 5) KW)
M ' <5A 2B42@<' 2BB "<& @ < <' <'" @ 2 B 2" <00<& 4G<@' 0<5' @ : 5' B" 42-< <5&
0<5' A 2@<5& 0<5' ; 2 5" <5' <'" 0<5' -B2B 4 : D' 4 2 @ 5' <'" B" 42-< 5& <"@) B "<B' C?'
<2) <4 : G4 5>' Y' G 05) $4 5& K KW)
3 ' <5A 2B42@<' ; "4 <& <D" 4 "<' B< ' 04' @ <5A 2B<2@<' -B2B 40<& <'" A : C0 B<'
A4 ' B <' B4' 2 5" <' B< ' 04' : < <) 0 'G 5) $4 5) K YU Y)

" # $ ' # %'

: <22<& ( )) '4 : G<0<'" B<) B ; <5' 5 : ' 4A 0< 2' KYW K KZE) 42-<B'
C?')) B<' < ; 4 <5"} K ' G 05) $4 5) K)) : 04?' B<' 04'
<2 "9<& ; "<') 6))) : <22<' <'" 5<5' < <: 5) 'G 05) $4 5) K)E
: <22<&) B<) <' B<' 4A 0B :) 'G 05) $4 5) K K&
94A"40& 6))) <5' 5 : G<2 5' 5 : ' 4A 0< 2) $4 5) K W)

@ 25"42" 8 ?(B ")E) B2 <5 5 : ' 04' G 4' A GB<' B<' / 5A 082(54
< ; 00 (<'" 54@ :) BG 05) $4 5F K K) I 'C<' : 5<B' = "9' @4 : " 2) _
hB ; 2 E)) B<) ' 5' A 0 "8A <' <'" ; 0 "48' B<' 4A 0B" ;) 5' G 05) $4 5) K Y)
) $) (<@ 2""<) (<82B '6 2"02(54'G <' <'" 5<5' B@ "5) $4 5) K K)E
8C G 2!(A+' ' B<' <2 > 5" 2' B<) 5" <' B<' 4A 0B 2) 5' G 05) $4 5) K Y)
05'" <B) $< 5) K (
$<0<'" B<' 0<' 0 ^8 <(= 2(6) B2 25' B<' 4A 0< 2' ' 4 : ' @25< 0' BJ "4") $4 5)
K !) : -09 ' " 4 : 504") (2B 2) K Y)

' ' 1 $ '

<00+' $) / 4A 0B A' 58' 280<"< <(K KU) $4 5) KW Z)
' : 2 < ( ) 4A 0< 2' .' < 2<' -280B<) ' G 05) <224) K W) <=' <B2)
2' A <55)E <224) W Z8') C0 - 4A9?)E
(42 <?($) 5" <' B< 4A<0B 20' " ' K KKE) GRB5) $4 5) K Y Y)
(BG?((8 < 2' 4 " ; <) $4 5) K W)
455 2(') 4A 0B 2' B <a 0 :) $< 5) K WZ
4A 0< 2((: 5' 24A4 "<(0<' $ 2@<) <5 BB<5 8 0B 2 <22<5) (2B 2) K W)
3 4A 0B 2' <05<5' BB" <@"<: 5) $4 5) K Y)
$<? <( ) 4A 0B 2' K <'" 5 2' "< ; A5) $4 5) K) U' GA05) $; 25) K W)
0 B(' 4A 0< 2' K) < 0 2) KW)
3 8' < 0 2 40A " 0 F 4A 0< 25') : 2 @9) K WW)
5<(6)) 0 <' ' 4A 0< 2' (' ' G 05) (2B 2) KW)
' 4A 0< 2 @ ! " : B <5) (2B" :) KW Z)
! <<0<?(6)) ' 4"= '" B5" ?' ' 4A 0< 2' (' (2B 2) K)
! 0 42<(% ( ) 0 <' ' 4A 0< 2) Z' G 05) <=' # >) K W)
4" 5@9< (!) 0<D42B <' K' <'" 4A 0< 2' K K K E(B\4A 85' 0< : ' @ <5A 2B<2@<'
2BB "<) $4 5) K WK)
42B40( ) 4A 0< 2' <'" 0<D42B <') ' G 05) $4 5) KW) 2' A - <54E
3 8' (\4G<2< ; <2'" B<' 24A4 "<) $4 5) KW) 2' A - <54E
<>' G 2' %4 "<2C : -(8' 4A 0< 2' 405' $5 B9< (' G 05) < 0 2) K U)
2 - 0 59' " 42 4")) ' G >) (2B 2) KW)

4 0 2 ' "**' ; 5' ' 4 ; 4G)

<4 : 94 ; 4 5(: -B2<' B<(B"2 <5' 8' @ 2<5A 2B42<<' A 0 " N : <' <'" ; 0 "4 <)
8 B "<B' C?' ' B :' 455<) K ' G 05) $4 5) K)
24A4 "<(6< B ; <(<'" 04' < 2<' 4"9< 2<(B ; <5' <'" @ <5A 2B42@<' B<) B "<B'
C?')' B :' 455<) ' G 05) $4 5) K K)
24A4 "<(6 5<A9(B ; <5' <'" @ <5A ; B42 <' A 0 " N : <' <'" ; 0 "4 <' B<) B "<B'
C?')' B :' " ' K ' G 05) $4 4' K Z'
24_8 "<((: @ <2) B ; <5) ' G 05) $4 5) K) 2 - 0 59' " 42504" 2)
X_2B 2) K)
:' 455<(4 2' ' (<<' < 5' < <5' B<' 4A 0B 2) $4 5) K)
6 55<2( ) 4A 0B 2' ' <'" 0<' ' B<' 09 ; B<' B\4A <5' B<5' B @ : ; ; ""5' 4 : "9<200N : <5'
<'" 2<B "5) 9<' 4 - : <' 42B' $4 5) K)
6 5BA9 2<(; A <55) (<"" <5) ' G 05) $4 5) K) 2 - > 9' " 42504" 2) A '
>) K)
6 : 2 - ( ) (: @ <2' 24A4 "<(<'" 5<5' ; B ; <5) ' G 05) $4 5) K)
455 2(') 6 5BA9 2<(; A< 4" @<' <'" < 2<) ' G 05) $4 5) K WW KW)
' 4A 0< 2' <'" 54' 4 ; <) Y' G<") $4 5) K WY) 2' A - <55)E
<2<G40(4 2' ' $) B<) 4A 0B 2' <'" 4 < (: 5<) 2B' <B2) ' G 05) $4 5)
K Z)
<N : 4 2(') 4A 0B 2' ' <'" 0<' ' (: 5(B\4A <5' 0<5' B @ : ; <2"5' @ 25< G<5' 4 '
i' 4 @9 G<5' 24" 240<5) $4 5) K YU)
0 < "9< ; < ( ) <' < C422"<2' B<5' < 5"<2' / 4 5< < 5) (< Aa -F K WY)

<?& 4 5940)' (<)' ?')' :G4(J $4 5)' K)
2B 2 "& 4 5940)' J4A <5045' 5 " G<: 5' 2BB "5' B<'04' ; 4 B@C40<)' ?')' !" <-0<)'
$4 5)' K WZ)
0 <)' ?'6)' <Z* C< ")' $4 5)' K U)
$p""<"& <4< 4(' ! :G<2 4'44 "4 <5F : 5)' K ZZ)
4AA8' <2< 40)' < ; <5' KYY K KE)' B "<B' C?' (4@ D)' $4 5)' K W)
j :0"& 4 594(' 0 <)' ?' ; C<5)' 45" <5)' K Y)
! :@9<"F 4 5940)' B ; <5' K KZE)' B)' !" ? ' :-2<5)' 'G 05)' $4 5)' K)'
42B4 ; ; <& <2< 40)' ?' & B ' 455<)' $4 5)' K Y)
@" & @" ' 04:B<' $< 2& B ")' 4 5940)' < ; <5' 2BB "5)' $4 5)' K Z)

' $ $ #)

"4:B' B<' " & @9<G40 <)' 5" <' B:' A4A<' / <')' 'G 05)' $4 5)' K)'
B 2<42)6 0?& B)' (J -8 5<' ; 4 2<' <2' + ' B<' 04' <G 0:" 2)' 'G 05)' $4 5)
K W K)'
4C 5& $)')' <5@9 @C"<' B< ' <9<' ;'D D"<2'649 9:2B< ")' 'G 05)' 225C :@>)'
K Z8))
:@@ &)' !" 4' B' $ ')' ; <)' K UY Z)
4 055 2G 00<& ; "<' B<)' (J -0 5<' ; 4 2<' <"' J ; A <)' U G 05)' $4 5)' K Y)'
6 ' > ' =' ' " ' . //

')

- 3 . $* ' & !

22:40' <- 5"< & "9<& ' 4' G <=' R ' "9<' 5" ?& $ 0 " @5& 42B' ("< 4": <& ' "9<'
?<4))' (2B 2)' KYWW 08XE)' 9<' 54 ; <' <=' !< <5)' K K)
CC<""& ' $4 0 4 ; <2"4 ?' 5" ?' ' 2-0 B)' <' DDD G DDDG & KYWW K)E
(:B 2)' K KW)' 2" 2:<B' C?' 4254 BF' 5<<' C<0 =)E
4254 BJ5' $4 0 4 ; <2"4 ?' <C4"<5)' 0<' DDD ' ;' K E)' (2B 2& G)B)
6 : 2405' '"9<' :5<' ' ; ; 25)
6 : 2405' '"9<' :5<' '(B5&
(2B 2' 4a<""<& "9<)' (2B 2)' KYWW K K)
; <5& "9<)' (2B 2)' KYWW K KU)' &
' ' "9< ' 4:"9 " <5& @ 2"< ; A 4 ?& -<2< 40& 42B' C - 4A9 @40& 'Q =' ' " ' , , //

2 42' 5 ; <

B 0A9:5& 6)' 5" ?' ' 2-042B' ; ' "9<' 4@@<55 2' " ' "9<' B<@<45<' ' < -<' ('
Y' G 05)' (2B 2)' K Z)
:22 2-94 ; & %)' ="9' 2-0 59' 2B:5" ?' 42B' ; ; < @<)' 0)' ' "= ' A4 "5E)
B' <B2)' 4 ; C B-<)' KW)' C0 - 4A9?)E
=<00& !)' ' 5" ?' ' 4D4" 2' 42B' 4D<5' 2' 2-042B)' Z' G 05)' (2B 2)' K Z)
64 ; <5&)' 9<' 4G B' 5" ?' ' <4" "4 2)' <=' <B2)' 'G 05)' (2B 2)' K)'
(<@>?& %)')')' 5" ?' ' 2-042B' 2' "9<' < -9"<<2"9' @<2": ?)' <=' <B2)
Y' G 05)' (2B 2)' K W)' &
(<G & ()' 5" ?' ' "59' ; ; < @<)' 2B' <B2)' (2B 2)' K)
4 " 2<4:& 4 <")' 5" ?' ' 2-042B' K KUE)' <=' <B2)' (2B 2)' K Y)'
455<?& %)' 5" ?' ' 2-042B' B: 2-' "9<' < -2' ' < -<')' Z' G 05)' (2B 2)'
K)
4?&)')' 25" ": " 240' 5" ?' ' 2-042B)' 'G 05)' (2B 2)' K W)
BB& 0A9<:5)' $4 0 4 ; <2"4 ?' G< 2 ; <2" 2' 2-042B.' "5' - 2& B<G<0 A ; <2"&
42B' A 4@" @40' A< 4" 2)' 'G 05)' (2B 2)' K Y)' '

' 1 &'

BB 2-" 2& '" 2)')&' "5'" 5@ : 2'" ! B ; 2"9)' 0 <' 42B' B <-A 2B8 '
B "<B' C?' "9<' 2)' 42B' < ?' <G)')' $<00<=)' 'GR8)' 2B 2)& K ZY)'
: -94 ; & <2 ?& (B)' !"4"<5 ; <2' '"9<' " ; <' ' < -<')' 'G 05)' (""B '
K U)
: >&')' % >5' 42B' <5A 2B<2@<)' <=' <B2)' 'G 04)' (2B 2)' 0 U)'
422 2-&)' !A<<@9<5' & = "9' 4' ; < ; ' ' C 5' 0 <)' ?')' C< ?)' ' 'G >'
(2B 2)' K)
' @ 40' <5A 2B<2@<')' B)')' A ' 6 !%' I' ' (2B 2)' VMMI
' (<')' ?')' %)')' 2 =' 1 ! ! ' VES7
H ' $ 0 " @40' (<')' ?')')' ! "4A0<" 2)' M' ' 1 ! ! ' VMM1
45'0< <4-9&)')' ! "<=4 "& 1 ' ! ' " ! ! ' 9 ' =' '
C "9<)' K ' G 05)' "9 <<' ' 1 ! ! ' VM5M?PM
' 0 <' & 42B' ' ! ')' ! "<=4 "' ?')' ! ' 6' ' 9 ! ' VMPV
' C)' ! "<=4 "& 5@ : 2"' ?' "9<' 4 @9b' '1 ! ! =' 1 ! ! ' VPS5
@" 24 ?' ' 4" 240' - 4A9?)' B "<B' C?' (<50 <' ! "<A9<2' 42B' ! B2<?' (<<)
'G 05)' (2B 2)' K U KW)' ! : AA0< ; <2"')' 'G 05)' C)' KW K)
' D&)' 6)' < ; 405 42B' <5A 2B<2@<')' B "<B' C?' (B' 6)' : 55<00)' Z' G 05)'
(2B 2)' K U Y)
' ! A<<@9<5)' % "9' 2" B : @" 2' C?' (B' 5> 2<)' 'G 05)' (2B 2)' K KK)
' (<' 42B' ; <5')' ?' (B' 6)' : 55<00)' 'G 05)' (2B 2)' K UW)
0042B& (B)' < ; 5' '"9<' %9 -' $4 "?)' 'G 05)' (2B 2)' K U Z)
64@>5 2& ! ' < -<' 4 <5' 42B' (<""< 5& K K)' B "<B' C?' (4B?' 64@>5 2)
Z' G 05)' (2B 2)' K Y)
(G< A 0& 4 0' C)' < ; 5)' (2B 2)' K Y)
40 ; <5C : ?& 64 ; <5' 4 5& 4 0')' 4 <5' 42B' <5A 2B<2@<' KY Y K K E)
Z' G 05)' (2B 2)' K Z Z)
$ ""& %)' ! A<<@9<5)' B "<B' C?' %)' !)' 4"94=4?)' Z' G 05)' (2B 2)' K)
' (<')' ?' 4 0' ! "429 A<)' Z' G 05)' (2B 2)' K)
))' ?' (B' 5<C< ?)' (2B 2& K WK)
%<00 2-" 2& ' <0B 4 595B' "9<' : >' <' e' 5A4"@9<5)' B "<B' C?' (' : = B)'
<=' <B2)' 'G 05)' (2B 2)' K ZZ Y)
' ! : AA0< ; <2"4 ?' 5A4"@9<5& <5A 2B<2@<& 42B' < ; 42B4)' B "<B' C?
9 5' 5 2)' KU' G 05)' (2B 2)' K U Y)
' (<')' ?' ! ')')' 4D=<00)' 'G 05)' (2B 2)' K WW)

')

! #

@9 G<5& 0<5& B<' J9 5")' B<' ' 42@<)' ?')')' (42-0 5' 42B')' ! "< 2)' $4 5)' K WK)'
@9 G<5' A4 0< ; <2"4 <5)' B "<B' C?' 4G B40' 42B' (4 : <2")' !<@ 2B' 5< <5' KYWW '
K E)' $4 5)' ')
<5A 2B42@<' A 0 " N : <' < -2' A 0 @?F' @0455 <B' C?' @ : 2" <5' 42B' ?<4 5E)' 2'
' @9 G<5' B<5' 4 <5' L " 42-< <5)
: G< - < & 6)')' 00<@" 2' @ ; A0<"<' B<5' 0 5& B<@ <"5& <-0< ; <2"5& 4G 5' B : ' 25< 0'
BJ "4" KY K E)' 'G 05)' $4 5)' K Z)
' 2B5' B<' 04' 5<@ <"4 < <' BJ<"4")' 2' ' @9 G<5' 24" 240<5)
(400< ; <2"&)')& B<' <"a)' 9 D' B<' 4AA "5& A 2 25& <" B 5@ : 5)' 'G 05)'
$4 5)' K K)
< ; 40' B2' BBAB" B<' 04' - : < <)' <5A 2B42@<' B<' 04' 42B<' ; <<)' @ : ; <2"5'
@045 "<B' : 2B<' 4 ; <5F "9<' @ <5A 2B<2@<' : 2B<' "9<' @ ; ; 42B< 5)E' 2' - '
@9 G<5' B<' 04' - : < <)
$ @<5 G< C40' B<5' 5B42@<5 B : ' ! <24" @" ; 5< G4"<:)' 2' # ' @9 G<5' 24" 240<5F @@)
0' K3)

Y / +' + . %

!

14B0 >< &) <5@9 @0 "< B< ' ! @C=< a) Z"9' <B2) ' G 05) ^ : @9) KW Z)
: 00< & 6) G 2& 42B 224 B& 6) 5" < B< 04' 2 <BB 4" :' 52 55<) 425m
04"<B' ; '"9< < ; 42)E K 'G 05) $4 5' 42B' <2<G4) K Y W)
: ?B<2&) G42) 5" < B< 04' 4" 2' 52 55<) 'G 05) (4 : 5422<) K W KW)
<@950 & % & <5@9 @9"< B< ' ! @9 =< a' ; ' D D"<2' 649 9 : 2B< ") 0) ' KYW K K E)
(< Aa -.) KW Z) 2' A - <55)E
! @9 =< a< & $) <5@9 @9"< B< ' 5@9 =< a< 5@9<2' <2" 40 "4") ' G 05) ' 4 : <2 <0B)
K W U)
)000 < &) <5@9 @9"< B< ' <0G<" 5@9<2' <A2C0 >& KYW K) 'G 05) < 2) K Z)
3 ' <5@9 @9"< B< ' B-<2 55< 5@94 '" =49 <2B' B< ' < ; ""<0 : 2 - 54>"<& K K '
'G 05) ^ : @9) K ZU)
: 00< ; 2& (') 5" < B<K" 2 <B< 4" 2' 5 : 55<& 'G 05) (4 : 5422<) K YU)

6 ' 'Q =' ' " '' ///#) / . #

(#)

a<-0 & 455 ; 'B '" ' ; < ' @ B (' $0 ; @<) K Y)
42@9 &) ! " 4' B<004' A 0 " @4' 4 : 5" 4@4' 5A<"" ' 4 ' 5 G 42 ' <B' 4 ' - G< 9 ' "40 42 '
B " J 422 ' KYWK "0 ; 4 - - ' K UY ' ! 4G 24) K UY)
22< 25&) 4 < 4 0 2<& <02< B< 4A0<5) $4 5) KW U)
""'4&))) ! " 4' B) "40 4& KY W K KZ) Z' G 05) $4 5) K Z) <G 5<B' <B2)
$4 5) K)
45" &)B<) ! " 4' B J "4 4' B40 KYWY 40 K KZ) 042) K K)
<0 < "& ' < 9< ' G 2) / B2 - ; ' / 4 0 24' G 2' <4A<0 : 2B' ! @ 0 42& ; ' / 4 ; A <
-<-<2' B < 42aB5 5@9< < 5@94 "& KYW K KZH <224) K Y)
6 9 2 8 2 &)) 9< 4A 0< 2 @ ; A < 2' ! < : " < ; 0 "40?) ' G 05) (2B 2)
KW Z) C0 - 4A9?)E
4 ; 2B : & & (J "8 4' B : 42"<04' B ; 24a 2< 82@<5<) 4A0<5) K)
42><& (') G 2 ' 4 B 240 ; 540G ' : 2B' 5< 2< ! 44 5G< =40" : 8' : 2"<)))$ 25')
(< Aa -) K Y)
: "9&) <5@9 @9"< B<5' "40 <2 5@9<2' 0><5' 22"< ' B '24A 0< 2 5@9<2' < 5@94 "))
(< A -) K UW)
! @0 A 5' B< ! 40< 2 & ') (4' B ; 24" 2' "428 " 5< <2' "40 < K KZE) $4 5) K K)
! <42@<5' <" " 4G4 : /' B< 4@4BB ; < B<5' ! @ <2@<5' ; 5<50 <" A 0 " N : 5) 05)
! # 2G2)E
G4 2 &) ' "40 4' A ; 4' B<004' G 0 : a 2< "42@<5< KY W K KUE) : 2) K W)
; < @4" &) 5" < B "40 < B< KY W 4' K) $4 5) K Z)

6 ' 'Q =' ' " ' , ///# , T

! $ ' ' $ ()

' - .

B ?& 42 : <0) 2<2"4' B4B5' B< 04' G B4' A 0 " @4' B<))& A 2@) B< 04' $4^& U ' ; < ; 45)))A4 '04' 9 5" 4' B<0 < 24B ' B<0 5<2 ' B 2' 4 0 5') 'G 05) 4B B) K Z) 2-0& " *425 04" 2) U G 05) (2B 2) K)

' ' (

4 : ; -4 "<2&) <5@9 @9"< ! A42 <25' G ; ' 25C 2@9' B< ' "42a 5 5@9<2' <G 0 : " 2) 0)) (< Aa -) K U)
5"4B4& 6 42) 5" 4' B< $ " : -40 945"4' K W) 4 @<0 24) K ZZ)

/ +' $ *+ . % Y

22@4 ;(!)) 5" ?' ' !A4 2' 42B' $ ": -4@ " ' K KZE) (2B 2) K !)
(4" 2 ' <@9 8' 6)) 5" 4' A @ " @4' <' ; @"4 ' B ' $ ": -4@(B<5B ' 5' 25' B '
K ' 5<@: @ ' 4"<' K KZ) ' G 05) (5C 2) K YZ8 K)
@G< 4' 4 " 25) 5" 4' B<' $ ": -4 (' ' G 05) (5C 2) K)

6 ' ' Q O %' +% ' , .

#((' $! !)

" # +' # %' ") %'

4 @@<:($) $ <:55<2' :2B' ' 42> < @9(KYWU K Y) A@ ; 4" 5@@<' <5A 2B<2a<2)
' G 05) (< Aa -) K K Y)
< =<@95<@ / 2 -' ' <B @9' % @9<@ ; J5' ' :2B' B<' 2 - 2' (: 5<' ; '" /4 5<'
@<D42B<') B "<B' C? $) 4 <:) (< Aa -) KW)
?@< "( ) ') 94 4>"< a -<' :2B' 9 5" 5@9<' ' 4- ; <2"<' 4 :5' B< ; ' (<C<2' B<5'
/ 2 -5 G 2' $ <:55<2' ' <B @9' % @9<@ ; ' (' Z' G 05) 88C2 8) K Z)
4-< ;(' < 9< '))) G 2) < 2' 2"9B @ 42' B< ' ' @ " >(:2"< ' 4A @< ; J5'
< 5@94 ") ! ": ""-4 ") K)
<2"a(') G 2) 4-<C @9<) B) 4 ; 94-<2' G 2' 25<) Z' G 05) (< Aa -) K K)
' < ; <5' <'" @<"" <5' 2BB "<5) B)) ! @9@<5 <) ! ": ""-4 ") K ZK
4 B<2C< -(<2>= B ->< "<2' B<5' ! "44"5>42a@< 5' ' : 5"<2' G 2) B "<B' C? () G 2'
42><) ' G 05) (< Aa -) K YY)
2"-<@45(@ 4 ' 4D) G 2) <2>= B ->< "<2(KYWW K KY) ! ": ""-4 ") K Y)
' < <) <-<25C : -) K U)
; A"<B4(() G 2) $ @ " 5@9< ' 4@9@455'4 :5' B<2' 649 <2' K Z K) ' G 05) 61 4) K W)
! "< 2( ) ') /) ' < 9< ' G ;) (<C<25< 22< 22 -<2) 4-<2) KW K)
! "< 2( ) C942B@ : 8<2' 42B' >"<25" @><' 4 ! ' B = ' A <:55 5@9<2' < ; a< "(K Y '
KU) (< Aa -) K U)
4 ; 94-<2' G 2' 25<( )) <2>= B ->< "<2' 42B' G< ; 5@9"<' ! @9 "<2) ' G 05)
4229< ;) K Y Z) 2-@ 59' " 42504" 2) (2B 2) K ZY)

' ' ((,

; 94>( ) <5@9 @9"<' B<5' A <:55) < =4@": 2-5 <@9"5) ' G 05) < @ 2) K Z W)
<2 5( ) (J @@< ; 4-2<(KY W K K) $4 5) K W)
' (J @@< ; 4-2<(K K U) $4 5) K W)
2@>< ( ) $ <:55<2' =49 <2B' B< ' 42a 5 5@9<2' >>4A4" 2) < @ 2) K Y)
' 59< ( )) () ! ": B <5' 2' 4A @< 2 @' ! "4"<5 ; 4259 A.' < ; 42?) D B) KW)
C@ - 4A9?)E
455<@(6) $) 8 9 @9 "<' B< ' A <:55 5@9<2' $ @ " >(K Y KU) (< Aa -) K K) G
4 :55< (() <: "5@9<' <5@9 @9"<' G ; ' B<' ' <B @95' B<5' 55<2' C 5' a: ' 2B '
: 2-' B<5' B<: "5@9<2' : 2B<5) Z" 9' <B2) Z' G 04' < @ 2) K W)
<2a<@(/) (<: < <' <5@9 @9"<' B ' <: "5@9<2' G 2' B< ' < ; 4" 2' C 5' a: '
(: 2B<5 @"<) K ' G 05) <504 :) K Z) &
^ =42a -' 649 <' A <:55 5@9< ' <5@9 @9"<(KY K) < @ 2) K ZW)
$< "9<5(( ) $ @ " 5@9<' ^ :5"42B<' :2B' $< 5 2<2' 2' <: "5@9042B' a: ' ^< '" B< '
42a 5 5@9<2' < 5@94 ") ' G 05) "94) K)
$9 @ AA5 2( ) <5@9 @9"<' B<5' A <:55 5@9<2' ! "44"5=<5<25' KY K K E) ' G 05)
(< Aa -) K) %(
4 ; C4 :B( )@ (<5' ' 4: 4 5' 5: ' @<' 9 2' KYW K ZE) $4 5) K Y)
3 8@' (J @@< ; 4-2<' 5 :5' 4A @< 2' ' K Z KKE) $4 5) K YZ)
!< G< <5( ) (J @@< ; 4-2<' 42 4 5<' 5 :5' 4A @< 2') $4 5) KW Z)
< "5@9><((G 2' <: "5@9<' <5@9 @9"<' ; ' D D f' 649 9 :2B< '" (')
(< Aa -))K YW)

Y Z / +$ *+ . %

' ^ - SW

00-< ; < 2< B<: "5@9< - 4A9 ! 'G >) A: C0 59<B) (< Aa -) K Y KW !)
0: @9< ?5< 2< < "" : 2B 5< 2 (<C<2) ?6) !<9<) 'G 05) K)
2B<B2) K UR\
3 ' 0 <) ?) 68B5<2B) < 0 2) K Y)
2< 5<2<"C (<C<2 B<5 ' <0B ; 5 5@94005 4 <2) G 2) ?)) $< "a 42B
8C @>) 'G 05) < 0 2) K Z K) 2B<B2) K WZ)
: .B8C 7' : 2B B < <5@9 9"< B<5 A < : 55 5@9<2 !"44"<58 KYW K K) ?() G 2
4 >B* 'G 05) (< A 8) K K)
' 0 <) ?) ()/0 5<) 400<) K K)
(: 5<8 / B2 - 2 G 2 ' <: 55<2) ?"9< 4 2 G 2 < -) < 0 2) K KZ)
[3 ' ?') B4 ;) KK"9<B2) c"< 50 9) K)
' 0 <' ; B ; <5) ? e) ' B5 2) 'G 05)(2B 2)K YZ)
20-<0458 4 'G 2) 0 <) ? : 2" B : : 0 2 @>94 ") : 2 @9) K WZ)
!@94 ; C 5"8 (<C<2 B<5 <2< 405) 6) A) G 2) ?) /0 AA<0) 'G 05)
(< Aa -) K W YK)
3 ' 08<) ' ?' 4D (<9 ; 422) 'G 05) (< Aa -) K Y)
!"< 2 (<C 8 B<5 2 5"< 5 ' <B ; : 2G ;) ?)e (' $< "a 'G 05) < 0 2) K U)
0 442B 2 ; 5) ?' 6)) !<<0<?) 'G 05) 4 ; C B-<) K Y)
33 '0 <)) ?') (B9 ; 422) (< Aa -) KW)
<>' G 2 %4 "<2C: - 45 (< B<2 B<5 ' <0B ; 4 5@94005 4 <2) ?6)) ?5<2)
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/ 4 0 a9< a - G 2 <5"< < @9) : 5-<=490"<! @9 "<2) 'G 05) <224) K W U)
<"" < ; @9 % 22<C: -)%))() $ 2@<) 4<9-<0455<2< $4A ; <) B "<B C?9 5
5 2) 'G 05) <224) K Z) B ; <5 B @: ; <2"5 <"B@ "!' B G< 5) 'G 05)
$4 5) K Z) 2-0 59 " 42504" 2) ' G 05) (2B 2) K)) $)
4 00<"" 2 5"") ^< "5@9 "") 0) ZZE
!@9=4 a<2C< - <2>"G B ->< "<2 4 : 5 B< ; ' 0<C<2' B<5 ' <0B ; 4 5@94005 ' : 5"<2 /)
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' ' ' $- - $- &' (' -

2-<0?( ) B0< 'G 2) a9< a -' / 4 0 G 2 <5"< < @9 8 ' ' <0B9< ' : 2B << <5'
-42 54") 'G 05) <224 42B (< Aa -) K W Y)
<<) ^<92 649 < 5 < < @9 5@9< ' $ 0 " >' K K K E) (< Aa -) K YY)
' <' <2"40 -@9<' $ 0 " >' <5"< < @95 a< " KYYZ $ 4- : < 42B (< Aa -) K)
2B< %) G 2) ' 5" 0< ; <25 <"" < ; @9 : 2B 5< 2 ^< "40"<) B < 8) K Z)
' : 2 <) <2"a : 2B C<2a0) <5@9 @9"< B< ' 5"< ; @9 5<9<2 A0< ; 4" <
K K) <224) K)
/ 2<5 ') "" < 'G 2) ^ : ' <5@9 @9"< <5"< < @95 ; ' ^< "40"< ' B< ' 42a 5 5@9< : '
/ <-< KYW K K) "94) K)
<?2< ") /4 5< ' ' 42a) ^ : ' <5@9 @9"< 5< 2< ' <- < : 2 - ' : 2B 5< 2< ' ^< ") 'G 05) <224) K Y)

2@><2& ' <5"< < @9' : : B' $ <: 55<2' ;' < < : 2 - 5> <8)' < ; 4)' K " ' G 05)' < 0 2)' (K Y W)
! @> ; B" %< 55<2 <05& e)' ' : 5"' <""< ; @>.' <5@9 @9"<' 5< 2<5' (<C<25' : 2B' 5< 2< ' ^< '" ' G 05)' $ 4 - : <)' K)
%< "9< ; < & e)' <5@9 @9"<' <5"< < @95' : 2B' 2 - 4 25' ;' < 5"<2' 649 ! <92" B<-' D D"<2' 649 922B< "5)' ' G 05)' (< Aa -)' K Z W)' ' 0
^< 55C< -&)& eB0< ' G 2)' a9< a -' 4 0 G 2' <5"< < B)' A4 "5H' <22<)' K WU)

6 ' ' ! ' / =' 42B E& ! ' Q 4 =' ' " ', //

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0<D42B <' <'" 0<' A 2@<' a4 " ?5>)' <5A 2B42@<' A4 " : 0 ! <' <'" @ 2G< 54" 25& K K)' B "<B' C?' $ 2@<' ( )' >4 " ?5>)' $4 5)' K U)
a4 " ?5> & $ 2@<' B4 ;)' < ; <5' <'" @ <5A 2B42@<' 4G< ' 0<D42B <')' B "<B' C?')' 4a4B<)' ' G 05)' $4 5)' K Y)' 2 - 0 59' " 4250)' ' G 05)' (2B 2)' K)' <55<0 B<& /))& ; "<' B<)' (<"" <5<"$8N2< 5 : " C 8 4A9?& <"@)E)' $4 5)' KW Z' 00&)& 4 ' G 2)' <2>= : B - >< "<2)' ' B ' C?')' G 2' < ; 94 B >' 2B' <B2)' Z' G 05)' (< Aa -)' K U)
% 2a ' @ G<5)' Z ' G 05)' ! '" $<"< 5C : -)' K Y WU)

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< ; 94 B &)' G 2)' pL<5@9 @9"<' : 55 42B5' : 2B' B< ' < : A4 5@9<2' $ 0 " >' ; ' D D"<2' 649 9 : 2B< "' Z' G 05)' (< Aa -)' K YY)
842 G "@9&)' 5" ?' ' "9<' < - 2' ' 0<D42B< ' ' 42B' ' "9<' : 55 4' ' 9 5' " ; <)' 2' : 55 42)E' ' G 05)' ! '" $<"< 5C : -)' K W YKH
0 G 2<& 6)' 5" <' BJ 0<D42B <')' (< Aa -)' K W)
6 ?2<G 00<&)' 0 <' 42B' ; <5' ' 0<D42B< ')' ' G 05)' (2B 2)' K Y)
=2C4 : B&)' 5" <' B<' 04' : 55 <)' U"9' <B2)' $4 5)' KW)' 2 - 0 59' " 4250 4" 2)' ' G 05)' (2B 2)' K YW)
!@C < ; 422&)' <5@9 @9"<' : 55042B5' : 2"< ' / 4 5< ' > 04 : 5')' 0)')' / 4 5< ' 0<D42B< ' : 2B' B <' 0<C2 55<' 5< 2< ' (<C<2 ! 4 C< "')' < 0 2)' KW Z)
!@9 0B< &)' /)' 9<' ; A< ' 0<D42B< ' K& 9 5' 0 <' 42B' < - 2)' 2' : 55 42)E' Z' G 05)' ! '" $<"< 5C : -)' K WY)
!A< 425> & : 2")' 0 <& C?' 4 2' / & 2' : 55 42)E' ' G 05)' ! '" $<"< 5C : -)' K K)
4"@9<G5> &)' A0 ; 4" @' <04" 25' ' : 55 4' = "9' ' 42<< 2' "9<' " ; <' 4A 0< 2')' 2' "055 42)E' @9 G<5' ' "9<' ; A)' : 55 42' 5")' ! @ <"?)' ! '" $<"< 5C : -)' K W)
8 ' ' ! ' * ' 4" 5@92 & 42B40E A ' ' / ' ! ' \ !

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0 0<= <0& 6& 5" <' B<' $ 0 - 2<)' ' G 05)' $4 5)' K ZZ&
- 25> &)' < ; <5' 5 : ' 04' $ 0 - 2<' <'" 0<5' $ 0 2 ; 5' B<A : 5' KY ' : 5N : 4' 04' 2' B<' K K)' Z' G 05)' $4 5)' K Y)

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6 ? 5<2&)) ' 5" ? ' =4? ; ' "9< <4 0 <5" " ; <5) ! " ? ' "9<
4" 25)E (2B 2) KW)
240 4 H !)) 8 " ?' ' ! = <B<2 " ' K KZ& ' G 05) (2B 2) K W Z)
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< < & !)) 222-' 4 05 X ' 6 9422 5" 4) ! " @>9 0 ;) K ZZ) < ; 42
"4=504" 2 C?) %) < @9) C B) K ZZ)
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480< 25 / -<) ' 05& A<294-<2) K Y)
82-44BH 1 ' < ; 4B ""<8 4A 0B 2& <" 0<5 : C 25) $4 5) KW K)
9A 5 <<&) <2 B425><' ! "4"5A 0 " 5><' 5" <' K ZE) A<294-<2) K YZ)
9@94 B (4 C55<&) 5" <' B<' 94 0<5 X ' 6<42 < 24B ""<E8 ' B<' ! : <B<' <"
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%< -<042B8) -<5 5" @) ' G 05) 9 5" 42 4) K Z)

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<45?&) !) 5" ? ' "9<' "" ; 42 : >5) ' G 05) (2B 2) K U)
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; < 5 2& 6) I ! ' 6) ; < 5 2 0 <2 ; "_) 5" ? ' B< ; ' <<@<' " ' "9<' A <5<2"
" ; <) ' G 05) (2B 2) K)
' 2042?&) 5" ?' A ' <<@<' 22B< ' "9 ; 42' 42B' <2<" 42' B ; 24" 2' KZU K KE)
(2B 2& K U) <G 5<B' <B2) ?) $) a<) Y' G 05) D B) K YY)
62@9< <42' B<' ! " <2?5& 4 2' & B<) 5" <' B<'] ; A <' "" ; 42& KYW K ZZ)
Z' G 05) 0 $4 5) K ZZ)
4 : < &) () G 2) 45 - <@9 5 9<' 0>) ' G 05) < B<0C< -) K U)
<2B<055 92 4 "9 0B?& /) <5@9 @9"<' <@9<2042B5) ! "44"<2 -<5@9 @9"<' B< '
2<: <5"<2' ^ < "E ' G 05) (< Aa -) K Y Z)
^ 2>< 5<2& 6) %) <5@9 @9"<' B<5 5 ; 42 5@9<2' ; 9<5 2' : A<) : A9 5@9<'
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KE' ' \ !

0 0 < B @: ; <2"5' ' ; 5"' ; A "42@<' ' "9<' B ; <5" @' 9 5" ?' ' "9<' @25:04"<' 42B' "9<' ; A <' 4 <' A <5< G<B' 4"' "9<' ' \ ! # =9< <' "9<?' ; 4?' C<' 25A<@"<B' 2' <N:<5"' 4BB <55<B' " ')' 0<' <@"<: ' B<5' @9 G<5' 4" ; :@5&' $4 5& ; &' ' :<B<5' ' 42@5 : -< 5)

9 5' 5' 2 '"' "9<' A04@<' " ' 2B @4"<' 400' "9<' 5< <5' 2' =9 @9' B @2 ; <C"5' 9<4 2-' 2' "9<A< B' ; 4?' C<' : 2B.' 2<' @42' 20?' < < ' "9<' 5": B<2"' " ' "9<' A: C0 @4" 25' =9 @9&' :2B<' <4@9' @4"<- ?&' - G<' 5: @ <2"' 2 ; 4" 2' 45' " ' "9<' B @: ; <2"5' '"' @ c" :25)' 9<' 5"' A04@<' ; :5"' C<' - G<2' " ' "9<' % ? ' ' ' ' ! ' ! ' ' ' \ ! ' $4 5& <04-8G<&' K WK&' K' G (E)' ! << <5A<@ 400?' "9<' 5< <5' ' <0<@" 25' 42B' G "<5E&' ' @ ? ' ' "9<' 55< ; C0 <5& 42B' B @:02<2"5' 4 9<a<BE& p ' "9< 25< G4" G<' ! <24"<' 42B' "9<' ; A< 40' ' ' # ' ' -<2< 40' 4B ; 2 5" 4" 2E& ' A04025' 42B' ; 4A5E& ' > ! ' . Q # ' : B @ 40' A4A< 5E& ' 42' ; A "42"' @ 00<@" 2' ' A 2"<B' ; 4"" < E& ' 8' "9<' ! "4"<' ! <@ <"4 4"E)' 9<' ? ' 59 :0B' C<' 5: AA0< ; <2"<B' C?' "9<' ' ' ! ! ' ' ' ! ' $4 5& ; A ; < <' 24" 240<&' KW F' 2 '" A: C0 59<B&' C: '" " ' C<' : 2B' 2' "9<04 -< '0 C 4 <5E&' 4' = >' B: <" ' ')' ' ! < G ! & ; <' <@" ' ' "9<' @9 G<5) ' ' "9<' 25:04"<' 42B' "9<' ; A <&' "9<' ; 5"' ; AA "42"' 5< <5' 5' "94"' ; 4 ><B' ' 8&' 2' =9 @9' 4 <' A <5< G<B' "9<' A4A< 5' ' "9<' @<' ' "9<' ; A< 40' ! <@ <"4 ?' ' !"4"<)' < <' 4 <' " ' C<' : 2B&' 2' A4 " @: 04 &' "9<' ; 2 5"< 40' <A "5&' 42B' "9<' ; 2 :"<5' "<2' @ <@"<B' C?' 4A 0<R ; E' ' "9<' B<@ <<5' A455<B' 8 ;' "9<' ?<4 ' G ; ' KYWWE " ' K KU)' 9<' 5< <5' ' 8&' 2' =9 @9' 4 <' 405 ' 5 ; <' ; A "42"' B A0 ; 4" @' B @: ; <2"5&' <A <5<2"5&' 2' 4@"&' =94"' 5' <55<2" 40' 2' "9<' 4B ; 2 5" 4" G<' 4@" G "?' ' "9<' A< B' " 0<' ! <@ <"4 4"' ' ! "4"<' 5' "9<' @<2" 40' -42' 2' =9 @9' B<A<2B<B' 4 ; B' 2' =9 @9' =45 ; A0<"<B' 400' A: C0 @' C: 5 2<55' ' 5" 4"<' ; A "42@<)

9<' 00 = 2-' A: C0 @4" 25&' C?' & 945)' ! @9 ; B"&' ; 4?' 405 ' C<' @ 25:0"<B)' KE' 1 ' ' 6 ' ' ' B ' ' ! ' A: C0 59<B)' 4)' KZ&' KW Z&' 2' 1 ' 6 +! ' B<5@ C<5' "9< 5< 0 " <5' < <B' " ' 5": B<2"5' G 5 " 2 -' "9<' @9 G<5&' 42B' 2B @4"<5' "9<' 2G<2" <5' A<2' " ' "9< ;)' E' 1 ' 6 ' ' /O ' ! ' ! ' B ' ' ! ' A: C0 59<B)' 4)' KZ&' KW & 2' 1 ' Q ' ; ! + ' @ 2"4 25' 42' <5" ; 4"<' ' "9<' ; A "42@<&' 5": B<2"5' @ ' @ 2"<; A 4 ?' 9 5" ?&' '"9<' A4A< 5@ 2"'" 2<B' 2' 5< <5' ' -<2< 40' 4B ; 2 5" 4" 2E)' E*' ! ' ' # ' /\ ' ! \' ' + ! ' ' ' ' ' B ' ' ! ! ' A: C0 59<B' 2' "9<' Q ! ' 6 ' ' ' ! ' KW J E' 59 :0B' C<' @ 25:0"<B' ' "9<' A: A 5<' ' <5<4 @9<5' 2' "9<' 4C: 2B42"' A4A< 5' ' "9<' 2 5" ?' ' $ 0@<' 5< <5' ' + ' ++ ' G # # 1<)E)

Y 5 ! % ' !

E' ' ' ' ' ++ ' % !

@ ; 2<2"<42"< ' " ' K ' 4 <' < ; ; ; @4"<B' 2' 4AA0 @4" 2' " ')' 0<' 2 5" <' B<5' 4 <5' " 42-< <5($4 5) 9< <' 4 8'"= ' A 2@ A40 5< <5.' KE' ! ! ' O '8B<5A4"@B <5 '4 ; C4554B 5(42B' @ <5A 2B<2@<' '"9<' 2 5" ?' ' ' < -2' 5: 5 = " ' ' <2@9' 4-<2"5' 4C 4B(@0455 <B' @ : 2" <5(42B' 2' <4@9' @ : 2" ?' C?' @9 2 0 - @40' B< E'F' E' % ' ' 3 ! ' B G B<B' 2" ' "= ' - : A5(' 42@<' 42B' < -2'@ 2" <5,8.' 42' ! ! ? ' 945' C<<2' 552<BF' 5 2@<' "9<' A : C0 @4 ' "R ;' R ' 1 ' '5 ' . 6 ' ' ! # C?')' (5: -0 5' 42B' !"< 2(G 0)' ' ' <' ! ' ' < ; ; ?(2-042B(8<2" 2<' <A : C0 @(: 5" 4E' 945' 4AA<4 <B' $4 5(K E)

E' ' ' ! ' ' '

@2 ; < "5' 42"< ' " ' K ' 4 <' @ ; ; : 2 @4"<B' 2' 4AA0 @4" 2' " ')' 0<' 2 5" <' B<' 04' : < <($4 5) 9< <' 4 <'"= ' A 2@ A40 5< <5(0 2 -' 2' <40 "?' "= ' B 5" 2@"' @ 00<@" 25' ' @9 G<5('4@@<55' " ' <4@9' ' =9 '" 5A<@ 40 4 : "9 54" 2' 5' <N: <B)' 9<5<' 4 <.' 0 KE' 1 ' ' G # =9< <' 2<' ; 4?' @ 25 : 0"(2' A4 " @ : 04 ("9<' " ' ' # 4' A ; 4 ?' 5 : @<' ' ; 0 "4 ?' 9 5" ?' F' E' 1 ' ' # =9< <' 4 <' ><A"' "9<' A< 5 240' <@ B5' @ ' ' ; 0 "4 ?' @< 5)

ZE' ' ' % ' ' " !

2' "9<5<' 4 @9 G<5(=9 @9("9 : -9' ' ; : @9' ; A "42@<(4 <' 5" 00' ; A< <@"0?' >2 =2("9<' B @: ; <2"5' 4 <' 4 42-8' 2' "9 <<' A 2@ A40 5< <5.' KE' ! ! ' ' " ! Y' E' ! ! ' % ! Y' E' ' 4 ' 9<?' 4 <' A<2' " ' 25A<@" 2' 2' 4AA0 @4" 2' " ')' 0<' ; 5" <' B<5' 0 2 <5($4 5)

UE' ' ' ' ' ' !

! 2@<' K WW "9<' A4A< 5' ' "9 5' 2 5" ?' 42"< ' " ' "9<' <G 0 : " 2(42B' 4' A " 2' ' "9 5<' ' 04"< ' B4"<(94G<' C<<2' B<A 5 "<B' 4'" 9<' ' \ ! ' ' ' "9<' A< B' ' "9<' 25 : 04"<' 42B' "9<' ; A <(2<' 59 : 0B' @ 25 : 0'" "9<' # "9<' ! ! ' ! ' @0455 <B' : 2B<' A "5E("9<' ! # "9<' ! ' ! A<@ 40 4 : "9 54" 2' ;' "9<' 2 5" ?' ' 4 2<' 5' <N: <B' 2' B<' ' " ' @ 25 : 0'" "9<5<' B @: ; <2"5)

E' 1

9<' B @: ; <2"5' A <5< G<B' 2' "9<' - <4'" 0 C 4 <5' 4 <' 5 ' G4 <B' 4' @94 4@"< ' "94'" '" 5' ; A 55 C0<' " ' - G<' <G<2' 4' 5 : ; ; 4 ?' 4@@ : 2'" ' "9< ;)' 2' "9<' 4" 240' (C 4 ?' 2<=' 4@N: 5 " 25' ' + ! + ! ' 4 <' " ' C<' : 2B' 2"< <5" 2 -' - ' F' 4' @4"40 - : <' ' =9 @9' 5' 2' A <A4 4" 2)' "9< 5' = ' C<' ; B' 2' "9<' (C 4 ?' ' "9<' 5<240' 2G<2" ?' C?')' 4 " 2E(42B' 2' "9<' 0 C 4 ?' ' "9<' 25" " : "<' @4"40"8 : <' C?' ')' : ; 2E(42B' "9< ' 0 C 4 <5)' : '" =94'" 5' <55<2" 40' ' "9<' B ; <8 ' 9 5" ?' ' ' 42@<' 5' " ' C<' : 2B' 2' "9<' B < <2'" @9 G<5)

' 2 "9< ' B<"4 05 3 <D@<A" '5 : @9' ; B @4" 25' 45' 94G<' C<<2' ; 4B<' 5 2@<' K WK 3 ' "9<' 5" : B<2"' 59 : 0B' @ 25 : 0'" "9<' C >' C?')' 9))' (42 -0 5' 42B')' ! "< 2(<2" "0<B' 1 ' ' ' /\Q ' ' < ! ' $4 5($ @ = B(K WKE)' <' = 00' 2B' "9< <(2' A4 " @ : 04 (2B @4" 25' <5A<@" 2 -' @ % <5' 4'" A <5<2'" 94 B0?' <DA0 <B(5 : @9' 45' "9<' ' ' # <"@)(405 ' <5A<@" 8' 5 : @9' 45' 94G<' C<<2' B<5" ?<B(<-)' "9 5<' ' "9<' " ! ' R<A% ' 42B' ' "9<' ! ' ' < ! ! # = 9 @9' =< ' C : 2'" 2' K YKG 42?' A G4"<' ; 0 <5' 94G<' A <5< G<B' B @: ; <2"5' <04" G<' " ' "9<' 4A 0< 2 @' A< B(C : '" 4@@<55' " ' "9<5<' 5' -<2< 4B0?' B @ : 0")

?B< B< < : G 00<&)& 4 2 B ; <5 <"# ! : G 2 !) 0)) $4 5) K)
(4G40<""<&)) 6) 94 ; 4258 ; "< B<) B ; <5 <"# ! : G<2 5) G 05))} $4 5)
K K) 2 - 0& " 4250) G 05) (2B 2) K K 52B K WU))
<2<G40) ' && 4 2 B<) 4A 0< 2 <"# 4 < (: 5<) ! : G<2 5 9 5" N : <5)
G 05) $4 5) K Z U) <=< <B " 2& <2" "0<B < ; <5& G 05) $4 5)
K WZ) 2 - 0) " 425 (' G 05) (2B 2) K WZ& K WU)
"# B< B0 " &) ')& ; "<) B ; "<5) G 05) $4 5) K U) 2 - 0& " 4250)}
<=< # >) K K)
<2& '))& ; "<) < ; <5) Z G 05) $4 5) K ZU) G 05) $4 5) VME6
G 25& 6) 4 N : <"# B< 2"C <" 2& 4 2 B<) < ; 40& ! : G<2 5) 05) &
;) $4 5) K W Y)
2G 4 B&) 6) B ; <5) G 05) $4 5) K)
$45N : < &)8)& : <) 5" < B< ; 2 "< ; A5) < ; <5 <B "<B C?' B : B <"8
$45 N : < E) G 05) $4 5) K W) Z) 2 - 0) " 4250) (2B 2) K W Z)
$<0<"& B< 04 (a< <& 6)& 4 2)E A 2 25 B< 4A 0<0 2) $4 5) K) 2 - 0&
" 4250) B 2C : - 9) K Y)E
$042@?&)) B4 B' B) @ : & ; "< B<) ! : G<2 5) $4 5) KW U)
$ 2"<@ : 042"& ( )) (< : 0@<"& ; "< B<) ! : G<2 5) 0)) $4 5) K K)
4 ; C : "<4 : &) $) 4 "9<0 "& ; "< B<) < ; 0<5 684 5) KW U) 8
! "<4 ; < & 4B4 ; <) ! : G<2 5 <"# @ <5A 2B42<<) G 05) $4 5) K UW)
<04" 25 5<@ <"<5 B<5 4 - <2"5 B< (: 5 X B $ 5 5 : 5 0<' A5 : 04"") B "<B C?'
; "< < ; 4@0<) $4 5) K WW)
< ; : 54"&) e) 6) 4G < B< < - <22<5& ; "<55< B<) < ; <5)) G 05) $4 5)
K YW) 2 - 0& " 4250) (2B 2) K WZ)
(<"" <5) G 05) $4 5) K K)
<B< < & $) ()& ; "<) : G <5) G / $4 5) K U W) !<< <5A<@ 400?'
G 0) 20)E "+ !4 2"< < : G<) 4 : 5) B : (: 2B & G 0) G02)
: 5"4 ; & 4 ; <0 : <> B< J ; A< < :) B ; <5) G : < <" 5A<@" G<) $4 5) K)
!4G4 ?&) 6)))& : < B< G -) B ; <5) 42 - <B C?') 5542 - <&
) : 0 5& <"@)E G >) $4 5) K) 2 - 0& " 42) Z G 05) (2B 2) K)
!B - : & $) $)& ; "< B<) 5" < <"# < ; <5) G 05) $4 5) K Y Y)
C B - <B' <B " 2& C?' () B< !<- : G 05& $4 5) K WZ U) 2 - (' " 4250)
(2B 2) K WU& K W)
& !"4 - 0& 4B4 ; < B<) 2 B< 4" 25) G 05) $4 5) K K) 2 - 0& " 4250) G 05)
(2B 2) K K)) 4 00<: 0& 6)) a4 ; <2' @ " N : < B<5 25 BB 4" 25)
G 05) $4 5) K K
D' 422B<5 B<D 0& $4 5) K K) B "<B' C?' $) 4 : " <) $4 5) KW Z)
2 - 0& " 4250) (2B 2) K K)
4 <? 42B $< - B& &) B<) $ 2@< B< B2UG<2") < ; <5) B "<B& = "9
A < 4@<& C?' "9< : < B< -0 <) 42 - <B' C?') B< 4@ ")E U G 05) $4 5)
K WK) 2 - 0& " 4250) U G 05) (2B 2) K WK) <5A 2B42<< B A0 m
; 4" N : <) B)) $4004 2) G 05) $4 5) K W WK)
3 3 8<"" <5 2<B "<5 4 4A 0B 2 K WE) B) $) < " 42B) $4 5) K W)
9 C4 : B<4 : &))& ; "<)E < ; <5 5 : 0< ; 5 : 04") G 05) $4 5) K)
9 <C4 : 0"& $))& 4 2) <A <5) U G 05) B) ') 40 ; <""<5) $4 5) K W U)
< ; < 09 $: 45<4 : & 6)& 4 2 B<) <5 5 : G<2 5) $4 5) K)
00< ; 4 2& ')) ! : G<2 5) 0)) $4 5) K U)
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$4 5) K Z)

' '"9 < ; 5 4A 0< 2 C?' : <22<E "9< < ; 5 42B <5A 2B<2@<
6< ; <& 6 5<A9& 42B (: @ <2' 24A4 "< 8 "9< (<"" < 5 "9< ; A <55 6 5<A9 2<
42B < ; 5 4A 0< 2 5 4 594050 42B <2< 4050 ! Q =

!) &)

/ "a<C <&) G 2) 22< 22-<2 4:5 $4 5 ; 649 < K Z) < 0 2) K Z)
(42-" 2&) 4 4" G< 4 @4A" G " 2 ' 42<< ; K W " K KZ) G 05)
(2B 2) K)
(B<@C<5 2 & 6B ; <& 4 N: 5 B<) BABB <5) B "<B CA 4 00<:) $ 8:55<2 :2B
' 42> < @9) (2) (<Aa -g) K YH $:C0 >4" 2<2 4:5 B<2 A <:55 5@9<2
!"44"54 @9 G<2)E
4@0<42&) 2 <D@: 5 2 2 ' 42@<) (2B@ ;) K Z)
<?< & ')) () < <) G 05) 022-<2) K)
@<&) G <= ; B< ; ' 42@<) (2B 2) K)
< ; <?< &)) < C4@9":2-<2 K YE) 400<) K Z)
$4 5a: ^< '" B< / 45< > 2:2-) (<Aa -) K)
$<0" < & 6)) $4 5A<2B42" 0<5 422<<5 KYW K) (2B 2) 2 5) ; 2-
UG 05)
$ 2>< " 2& 6) <@ <@" ; 5 K)))UE) G 05& (2B 2& K)
""><2<?& (<:") 0) 4G<05) (:B 2) K W)
$0 ; A" <& 22<) 24 4" G<) G 05)0 (2B 2) K K)
< @C4 B"&) ') < " 4:"< < <) C: -) K) ' <2@9 " 4250 4" 2 C?
(4N: 42"<) $4 5) K W)) 55& K) <0<:@9":2- B< G< " 4:"<2 < <)
< 0 2) K Z)
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!@904C <2B)E 4A 0< 2 24A4 "< :2B B45 4:a 5 5@9< 0>) < ; 42 <2
I 4 ; C: -) K KZ)
!@ ""& 6) G 5 8 " $4 5 2 K KZ) (2B 2) K K)
8<A9< B& %) $4 5 2 K 42B K KZ) (2B 2) K KZ)
!"<=4 " 2) 9< <0- 42& 4G<00<) Z G 05) 0 B 2) K)
3 8 ! <@ <"" 9 5" ?" " : " 42B 4C 2<"" ! 4 2" 0 :B) G 05) (2B 2)
K)
9 2" 2& 0)) ! A " 2- :) G 05) (2B 2) K)
""< & 6)) < ; 5 "9< 04"< ?<4 5) 6) ' D) (2B 2) K KK)
2B< = B&))E 24 4" G<)))C< 2-<D" 4@"5 ; "9< 6 : 240 4 B"<2:)
(2B 2) K & K)
%0 4 ; 5&) !"4"< ' 42 < 0 E& G 05) (2B 2) K Y)
%0 50<?& 6) @@ :2"" "9< !"4"< ' 42@<) (2B 2) K)
>< &)) (<""< 5 ; ' 42@< K E) G 05) (2B 2) K Z)

0-< & 6)) 4A 0< 2J5 " 59 5 " 5 42B 4A" G<5) (2B 2) KW Z)
4C<4:&) (<5 2-04 5 <2 ' 42@< 4A <5 04 A4 D BJ ; <25) $4 5) K W)
0aC482& $) < < 5"< / 25:0 24A4 "< 22B 5< 2 B<:"5@9<2 <5:@9<) 22)
KW)

& !$ (% /!)

1 * 2 ! 34 5 # # ' " ! 67 5 0 4 0

" :a 2&) B<) "<25< B< <4:94 ; 4 5 4B4 ; < (:5 24A4 "<) G 05)
$4 5& K WY KW K) 8
2C<245& 6))R 5" < B< $; AB 4" @< 6 5BA9 2<) G 05) $4 5) K W) 8
2-94 ; &)) 9< 4 4-<5 "9< A24A4 "<5) G 05) (2B 2) K K)
' 2"4 2<& $) ') () <5@ A" 2 B<5 B B ; : <5))A : 0< ; 4 4-< B< !)) 4A 0< 2)
$4 5) K K)
:00 5&) 4A 0B 2& 9 ; ; <& 0< A 0 " N:<& J 4"<:) G 05) $4 5) K W)
; C< " B< !4 2" ; 4:B& & ()& 4 2) (<5 < ; ; <5 B<5 : 0< <5) K G 05) $4 5)
0 W4

!) &)

(<2 " <&')' (4' C :4""2< <' 2 ; 42B<' 400 "<5 ; A5 B<' J ; A <)' $4 5)' KW K&
C N:<"& $)' (<' -B2B 40 BJ <B :G <)' <G:<' C 5" N2<& KW & (' Y)E

C:B 00 < &)' (<' @ ; A0 '" B<' J42' D)' <G:<' 905" N:<)' KW & KW K)
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' (<' B 55 < ' BJ:2' B<A "B' B<' K Z)' $4 5)' KW Z)
'<5@ : "')' 5" <' B<' 04' B :C0<' @ 25A 4" 2' B<' K)' $4 5& K K)
2 00 2&)' (<5' @ ; A0 "5' ; 0 "4 <5' 5 :5 0<' 25:04"<'" J ; A <)' $4 5)' K WZ)
B < & 9)E 5" <' B<5' 5 @ <"<5' 5<@ <"<5' B425' J4 2<<' <'" B<5' @ 25A 4" 25'
; 0 "4 <5)' $4 5)' K KU)
$<2425"< & : 2' B<)' 2<' @ 25A 4" 2' <2' 42' K ' <'" <2' J42' D)' $4 5)' K W)
$ @4 B&)' 24A4 "<' <'" <4:& $4 5)' KW U)' 2' A - <55)E
$ @<5' 25" ; '" @ 2" <' !4 2" <42' <'" 4:" <5' ' G 05)EF @<2" <' < 2< G 00<' <'" 4:" <5'
K G 0)E)' $4 5& 42' D)' $ @<5' 25")' @ 2" <' < -<5& $ @9<- :& <4:& <'"
4:" <5' ' G 05)E)' $4 5)' K Z)' =
9 < ?&)' : - :5" 2)' 25A 4"<: 5' <'" -<25' B<' A 0 @<F 0<' @ 5NA0 '" B<5' 0 C<00<5'
K E)' $4 5)' KW)

:04?' B<' 04' <: "9<& 0 <B& ; "<)' (<5' B< ; < <5' 422<<5' B:' B:<' BJ 2-9 <2)'
$4 5)' K)
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A 4 2<)E $4 5)' KW Z)' 2' A - <5B)E
< ; <5' 9 8 N:<5' 5: ' 04' @4"45" A9<' B:' B:<' BJ 2-9 <A)' $4 5)' K Z)'
:-4 BB<' B<' ' 4?<"&)& <@9< @9<5' 9 5" N:<5' 5: ' 0<' A <B5' <'" 04' @ 2B4 ; 24" 2'
B:' B:<' BJ 2-9 <2)' ' G 05)' $4 5)' K ZZ)
%<05@9 9-< &)' (<' B:<' BJ 2-9 <2)' $4? 5)' K)

: :?&)' (4' @ 25A 4" 2' B:' -B2< 40 40<"& <G:<' B<5' H< :'" 2B<5& ' <C)' K&
K YW& 42B' " :B<5' BJ9 5" <' ; 0 "4 <& $4 5& K)E
4 ; <0&)' 5" <' B<5' B<:D' @ 25A 4" 25' B:' -<2B 40 40<")' $4 5)' K Y)
(4 C2& 6)')')' 5" <' B<' 04' < 2 : 4K ' B:' -B2B 40 40<")' $4 5)' K KZ)
K ' =C < & ()' (<' -B2< 40 B<' (4' <)' $4 5)' KW Z)

)' & # 9 * # %' ' ! + %' : ! + ' /)

:< @& ()' (<' 25< 0 BJ "4"' 4G42"' <'" B<A: 5' KY W)' $4 5)' K Y)
4 5"BB"< & $)' <' < =40": A-' B<5' "< 05455' 45 9 2E : "< ' 4A 0< 2')
^< "5@9 '" ' B <' <5@9 @9"<' B<5' C< 9< 25)E < B<0C< -)' KW Z)
<<42&)' (<' A < ; < ' ; :G< ; <2"' A < <@" 40& <2' . !' G2)' <G:<' A 0 " N:<' <'"
A4 0< ; <2"4 <& KW Z& ")' ZK)E
B ; 2B 042@& & 4A 0< 2' K +' 5<5' 28":" 25' @ G 0<5' <'" 4B ; 2 5" 4" G<5)' $4 5)
' K)
22<"&)' 5" <' B<' J4B ; 2 5" 4" 2' A G 2@ 40<& B<A4 "< ; <2"40<' <'" @ ; ; :240<'
<2' $ 42@<)' $4 5)' K U)
!4 2" #G<5&)& ; B' ' : 2 < & 6)' (<' B<A4 " ; 2<2'" B<5' :@9<5' B:' 9 2<' B<' K '4'
K K)' $4 5& K WW)

204 B& ')')' $4 5' 5 :5' 0<' 25:04")')' &')' $4 5)' KW)' 2' A - <55)E
00<@" 2' B<' B @: ; <2"'5' <04" <' U J9 5" <' B<' $4 5' A<2B42'" 04' BG 0:" 2)E
00<:05&)' B<5)' 5" <' B<' 4B ; 2 5" 4" 2' A4 5 <22<' 4:' D D ' 5 <@0<)')' ' K '
KUE)' $4 5)' KW)

!)' '

)6Q ' ! , ' ' ! + ' ,' ' ; &

"42a4< Z< (4C <& (' B<' $= 5' 5 :5' 4A 0B 4' ' 2' 2540 4" A G 5 <& <"
5 5:05" '"< ; A5' $4 5' KW U' 2' A - <55)E
$455 & (' & ' A@0 A"& A < <" B< 04' ! < 2<' $4 5' K %)
! ; AB& ' $"4 5B< 0 1 KW ' ' 8 E)' $4 5' KW)

4 " 5H)& 05' 5" <' BA' A'C42N:<B<' ' 42@<' $4 5' K YU' <=' <B " <2&
<2" <B.' 5"< <' B<4' C42N:<5' <2' ' 42@<' $4 5' K K)
"4:B 2& & "H :<B< 4<"<' A" @< 9 !" N:< 5:' 0<5' 242@<5' B< 04' ' 42@<
K KZE' $4 5' K K)
04' $2A<00A& 6' B<' (<!' 242@<5' B<' - :< <' B< KYW ' 4' K KU' 2240<5' B< J8@ 0<
0 C <' B<5' !@ <2@<5' A 0 " N:<5' K W 8 K W)E
@ 045H)' (<5' C:B-<"5' B< 04' ' 42@<' B<A:5' A' @< ; ; <2@< ; <2" B:' D Dt' 5 <@0A'
$4 5' K)
4 ; B& 6' <5' 242@<5' B<' 04' / 82C0 N:<' <2' J42' D' $4 5' 8 K)
!" :22H ' 0<5' 242@<5' B4' A25 04" $4 5' KW)
C < & ' 5"@ A' B< 04' B<"" <' A2C0 N:<' <2' ' 42@<' ')' $4 5' 42B' 42@?)

; B&0 (' !": B< 5:' 0<5' "4 0!' B< A242<5' " 5:' 0<5' " 4 "<5' B< < ; ; < @5' '? 05'
A ; 5' K Y)
C4A"40 6')& ; "< B< C42"<0 :A' <' J 2B:5" 0< 42 4 5<' ;' o ' $4 5'
K 0B)
4 ; 5" B"< & $' !": B ' a:' 4AA0<<2 5@ <2' % "95@0 4 "5AA0 " >' < "<0 49 '
R 5@C '" C ' ! a 4 ' 22B' % "95@94 "5-<5@ 4 @0 "<& KW Z U)E
64: 8& 6' 5"< <' 5A@ 40 5"<' A0' G .' 25:0" <" ; A <F C?' $' :55< 42B'
' : "' $4 5' KW U)
(<G455< & ' 5" <B<5' @0455<5' 2G < <5' <" B< J 2B:5" <' <2' ' 42@<' B<A:5' KY W)
$4 5' 6K Y' <=<B " A2& @ <@"<B' 0' ' $4 5' KW)
"40)) :a' 4AA "5:' 0<5' : 42B<5' <" 22:" 5<5' $4 5' K U)

<0C ; ; <& 04<4") 0' ' 5" <' B< J 212"< <' 2' ' 42@<' A0' DG KYW K KUE'
$4 5' K WW)
045<& ' (4' G < ; "4 <5 :5' J ; A <' G 05' $4 5' K Y' C B-<B' <B " 2'
$4 5' KW)&
42" 2& ' 4A 0B 2' 42" ; 0 "4 5"<' $4 5' KW j)
94A :" "& ' (G <' BJ ' B<5' @ < 5' 42 4 5' B< KY W B' K KU' $4 5' KW Z'
24 B& $' 4A 0< 2' <" 0<5' G @4" 25' ; 0 "4"<5' <G:<' B< $4 5' KW)
' 400 2& (' (4' -4 B< ; A8 40< K Z KUE' $4 5' KW K)
' < <& ' 4A 0B 2' K[' <" 04' 4 B< ; AB 40<' $4 5' K UW)
B' B< J 2& 4A"' B' 42B5 4 " 00<: 5' $4 5' 42B' 42@?' K WZ)
!" N <' B<5' @ A5' B<' " :A<' B< J4 ; << 9 ; 4 5< KU W KW E' $4 5' 42B' 4 ; 8'
KW)
(<"" = C<@>& ' G 2' <' 42a 5 5@C<' 25@ A" 2' D ; "<' 4A 0< 2' (' < 9 "<'
a: ;' 0 "! % @9<2 04""E < 0 2' K W)
4 " 2 <2& ' 4C0<4:' B<5' @ < 5' ": B5' <" C0<55 1' A<2B42" 0<5' - :< <5' B< J ; A <'
K U K E' $4 5' K WW')
455 2& ' ' 4G40 < 5' B< 4A 0B 2' $4 5' K WU 42B' K W)
G42& 6' (<5 0B4" ; A< 40' K KZE' ' G 05' $4 5' KW Z U)
$9 0 A& (<2") 0' B<' (<5< G @< BJ ' "4" ; 4 ' A<2B42" 0<5' - :< <5' B:' $ < ; < '
; A <' $4 5' KW)
$ @4 B& (' (4' 4G40< <' B4250<5' - < <5' B< 04' <G 0:" 2' <" B< J ; A <' j' G 05'
!4: ; : ' K WU)

; 4-2 ( ) 5" < -82B 40< B< J4 ; B< 24" 40<) $4 5 42B 42@?) K W) !42a<(4A") @ 2 -8AC < B4 @ 5": ; < ; 0 "4 B B< 04 B 0 " 2 <"" B< J ; A <) $4 5) KW K)
9 : ; 45(<2< 40) (<5 - 42Z5 @4G40 < 4 B" $ < ; < ; A <) 05) $4 5 42B 42@?) K W)

< ! %" " %" : $0 = 0 : 0 ' & =

<4 : @C4 ; A( ) B) <@ : < 0 B<5 0 5 <"" <-40< ; <2"5 5 : J<25< -2< ; <2"" 5 : A< <:)) KY W K ZYE) $4 5) K))0?(2B<D) K U)
: -8 5( ) (4 0 C< "B BJ<25< -2< ; <2") 5" < <""B @" 2<) $4 5) KW)
94C "( )(42B 94 0<"?(!) 5" < B< 0 ; 5< - ; <84 ; "5<@ 2B4 < B4 ; 0 < 0 B2< KY W KW E) $4 5 42B (? 25) KW)
9<G40 < ( ) (<5 ' < <5 B<5 8@ 0<5 @9 B" <22<5 <"" J<25< - ; C ; <2"" A ; 4 < KYWY K E) $4 5) K Y)
'4C ?(6)))E (< -<2 < B< 04 <G 0 : " 2 @ 25 BB B B425 K B : @4" 2) G 05) $4 5) K KY)
84 B( ) (4 0<- 504" 2 B< J 25" ; @" 2 A ; 4 <(K gZ) !<@ 2B <B " 2) 0)) KY W K)E $4 5) K W) 0) 3 $ ' <2< 40 2B<D) KW K)
: a "(') 554 5 : J9 5" < <"" JB"4"" 4@"2<0 B< J 25" : <" ; ' A : C0 N : <) $4 5) K K)
044 B(( ) (J<25< -2< ; <2"" 5 : AB <: <2 ' 42@<) 05) $4 5(K WZ)
<2B : ( ) B< : 2 G< 5 "4 <) $4 5) K Y)
554 5 : N5" : @" 2 A : C0 N : <" <"" A4 " @ : 0 < < ; <2"" 5" J 25" : @ 2 A ; 4 <) G 05) $4 5) K KW&))) <2B :)) <2B : <"" ' 2 G< 5 "B B< ' 42@<) $4 5) K K) &
<2B : ( )E C5< G4" 25 5 :))) J 25" : @" 2 A : C0 N : < <"0J8B : @4" 2) $4 5) K K) ' : 5 : AA0< ; <2"5) K K)
42@<?( ) B<) 5" < @ " N : < <"" 0<- 504" G< B< J 25" : @" A : C0 N : < <"" B< 04 0 C< "< B< J<25< -2< ; <2") G 05) $4 5) K ZZ)
!@9 ; B"( ) (4 < ; < B< 2 G< 5 "B ; AB 40< <2 K KK) $4 5) K U)
00< ; 4 2(')) 4AA "" 42 5 : J 25" : @" 2 5<@ 2B4 <) $4 5) K Z)

2@ @( ) (J 25" " : "" B< $ 42@< K U K WE) $4 5) K W)
' 42N : <G 00<(; "< B<) (< A < ; < ; CB< B< J 25" "2"" B< ' 42@< KYWU K WUE) G 05)0 $4 5) K WU)8)

<22 2B B< (4G -2<( ) (<5 A4 ; A90<"5 B< 04 2 B< J ; A <) $4 5) K YW)
4" 2((5" < A 0 " N : < <"" 0 ""B 4 4 < B< 04 A <55< <2 ' 42@<) 0) G2) $4 5) K K)
$ "" <G 2( ) (4 0 C< "B B< 04 A?<55< B<A : 5 04 <G 0 : " 2 KY W K KUE) $4 5) KW K)
(@ B(6)) 6E 5@45)5 25 5 : 04 0 C< "B B< 04 A <55<" 04 @<25 : < K KKE) $4 5) K KW)
!@9 ( ) G42) (4 A <55< 5 :5 0< 2 ! : 04"" <"" J ; A <) : D< <5) K WW)
%<05@9 2 -< ( ) (4 @<25 : < 5 :5 0< $ < ; < ; A <) $4 5) K)

4AA "5 5 : 0<5 A - 85 B<5 5@ <2@<5 ; 4"9< ; 4" N : <5 B<A : 5 KY W(C?)) 6) <04 ; C <" B<5 5@ <2@<5 A9?5 N : <5 <"" 24" : <00 8(C?)) ( )) ') (: G < " B<5 0<"" <5 42W4 5<5(C?) (6) B< 9<2 < ' B< J9 5" < <"" B 04 0 """ 4" : < 42@ <22<5(C?)) 6) 4 < " B<5 C<4 : D 4 "5(C?) 6) (<C <" 2) U G 05) $4 5) K (K K)

!) ( )

YWW " U

4 (3 ($ % !)

!!

@9 G<5 B: $ 2@< % 2a = E5@ = K!YY)
@9 G<5 "9< :55 42 5" @40 ! @ <"?) D K Y F G 0) DDD K K F
G 0) DDD K W ! " $<"< 5C: -)
:45>4 4 !"4 24) 05) G G ; ! " $<"< 5C: -) K Y)

@ ! - 1 : 3 $

2-<094 " ( ) > 04?<G "@9) ^4A 5> KY K :55>4G @9<G4) 5@ =)
K)
0 G> 2< ; "< ') (4 : <" 0< 8-2< B< $4 :0) $ " 4 "5 ! :G<2 5 <"
2<@B "<5) % "9 2" B:@" 2 42B "<5 C? !) 2 :<") $4 5) KW U)
I 455 2 4) < ; <5 5<@ <"5 5: 04 :5 ; <) G 04) $4 5) K)
>< %) (< 4"9< 2<) G 05) (2B 2) KYW)
' "9< < ; 5 <"@) $ 2@< a4 " ?5> ! Q =

4@9 ") ! :G4 = <2 "40 <) $4 5) KW)
(4 G< <) B<) 4"9< 2< <" 04 <G 0: " 2 2 4 5<) $4 5) K WU)
/ C<>) 54 <G "@9 $4 :0 $<" G " 9) 2B <B2) ! " $<"< 5C: -) K)
!@9 < ; 422) < ; B:2- $4 :05) < 0 2) KW)
!@9 0B<) $4 :0 2" ; <) $4 5 KW)
! 8) B<) < B: ; "< 5" A@9 2) $4 5) K Y) 0
%40 5a<=5>))) (< ; 42 BJ: 2< ; A< 4" @< 4"9< 2< B< :55 <) $4 5)
K W)
' -<2< 40 G >5 2 :55 4 C? < 994 B 4 ; C4: B 42B !@9 < ; 422 !
Q =)

! % % #

4 2)) :5"4G:5 42B 9 5 2"< ; A 4 <5 KYZ W) G 05) (2B 2) K WZ)
=2 6) - 240 < ; 5 ! =<B<2 42B <2 ; 4 > ; KY " K K) (2B 2)
) K WU)
' -<2< 40 = >5 2 !@42B 24G 42 5" ?C? 4 2 :294 ; $?D<00 0 ; 9 5 <<8 % < 8042B Q =

!

K

$<" "(6) 4 <2-) $4 5) K)
$ @4 ( ) 24A4 "<' <'" <4 :) $4 5) KW U)
$ ""40 : -4( ) (4' C4""4 - 0 4' B ' 4 <2 -) ' G 05) 0<5542B 4) KW)
@9<A425<( ) (4' C4"4 00<' B< 9<20 2B<2) ! A<@"4"<: ' ; 0 "4 <)E K)
C< "5(55' ()0) 9<' 2<- @ 4" 25' A <@<B 2 -' "9<' $<4@<' ' (2BG 00<) 425m
4@" 25' ' "9<' ?40 5") ! @ <"?)E 0)' DG) KW K)
!4 -<2"( )) 4 ; A4 - 2' ' 4 <2 -) (2B 2) K WY)
!@90< < ( ) <' ! @904@9'" C<' 9<20 2B<2) B 2 -) K U)
<55 < (6) (4' C4"4 00<' B< 9<20 2B<2' <'" 0<5' A < ; < 5' 4AA "5' B<' ! 24A4 "<' 4G<@
0<' <2< 40 <4 :) <G : <' 9 5" N : <(D)E' $4 5) K YW)
42B40( ) (J< <'" B<' 4 <2 -) <G : <' B<5' < : D' 2B<5(6 : A<' K)E' KW)

2' "9<' C4""0<' ' 9<20 2B<2(5<<' <5A<@ 400?' "9<' < ; 5' ' <@9<2' !) 2'
"9<' C0 "9<N : <' B<' 04' G 00<(4<2EF 2' "94'" ' 4 <2 - ("9 5<' ' 4 ; 2"(455<: 4(
42B/ @" <2@ 4] U] RE j NA + E42B (<5 49 < 5B : 4A "4 2< -2<") $4 5) K)

' +' ! # ! ' '

=2 2 -( ) 2 -042B' 42B' 4A 0< 2' 2' K) <5N4 "@9<5 ' (B' %9 "= "9)
(2B 2) K Y)
$<00<=(<42) (<' 42B' <5A 2B<2@<' ' BB 2 -" 2) (2B 2) K ZY)
$ " <0(6) (4' : 55 <' <'" 04' : A" : <' B<' 04' A4 D' B/ ; <25($ @ : ; <2"5' 49 - 04 5' <'"
: 55<5 : BB "5) 2240<5' B<' @ 0<' B<5' 5@ <2@<5' A 0 " N : <5)E' K WY)

2 0( ) (4' ' 42@<(2 -0<"< <(<'" 4A0<5(K) $4 5(KW U)
= ; 42( )) <' <2 -0 5@9 42a 5 5@9<' ' <B<25G< 942B0 : 2 -' <@) KYWW 642)
K E) (< Aa -) K WW)
$ <0 ; 24 ?' 5"4 - <5' '"9<' $<4@<' ' ; <25) 2") KW)
: @99 0a) <' 24A 0< 2 5@9<' % <0"A 0 " >) $ < : 55 5@9<' 649 C @9< (6" 2<)E' K W)
4' 455<( ) 5" <' B<5' 2<- @ 4" 25' B A0 ; 4" N : <5' <04" G<5' 4 : D' " 4 "<5' B<'
2"4 2<(B<' (: 2<G <' <'" B/ ; <25) ' G 05) $4 5) K UU)
><B49(%) 9<' A 2@ A40 @4 : 5<5' '"9<' <2<=40 '"9<' =4 ' C<"=<<2' 2 -042B' 42B'
' 42@<' 2' K) 2' 425('"9<' ?40 5" @40 ! @ <"?) <='5<) 0)' G :)E
' B<G4 : D( ) ' A 0 " N : <' @ 0 2 40<' B<' 4A 0< 2') <G : <' B<5' N : <5" 25'
9 5" N : <5(G 0)' DG ;)E' $4 5) KW K)
2" (4 0 ' 0 <' 42B' (<""< 5) 0)' 2) (2B 2) K YZ)
B<2( ) G 2) ' < ' : @>" """ B<5' 2 5"< : ; 5' $ """ K K) 5" 5@9<' ^< " '
5@9 "') 0) X) E' : 2 @9)
S' 9 0 AA5 2(' K ' B/ ; <25' <'" 04' A 0 " N : <' -<2< 40<' B<' 4A 0< 2') <G : <
9 8 N : <) @) DDG' 42B' DDG)E' $4 5) KW K)
' '"9<' = >5' ' N <00<' 42B' (: ; C 5 ' 4A 0< 2]5' <04" 25' = "9' 2 -042BE(
0 ' ' <2@9' @ 0 2 40 AB0>?E(0 G<5' ' $ """ C?' 5<C< ' ? 42B' ! "429 A<(B' "9<
< ; : 5(<"@) B '$ """ 42B' ' D(' F ! 'Q O =

)' (#)

' ' = >5' ' 4' -<2< 40 24" : <' C?' 42@9 (""" 4(<' 45" (4 ; 2B 2 (
: "9(! @0 A 5' B<' ! 40< 2 (G4 2 (; < @4" (' ! ' Q =

- ' # ' ! 1 #

G4C<2<(: 2'") < ; <) ' 0 <2@<) K)
@ -24 48') ( ) < ; <(" 4""<' B4 ' B @ : ; <2"' - 240) B "<B' C?' 404 ; 42)
<2 @<) K)

!(; (' G)

48' 0C)' <' !@C @>540<' B<' <@00=<a<' <- ;<2"<' 2' 4A 0<25' '<0Ba:-' 24@C'
:55042B' K K E)' !<@ 2B'<B2)' <0)' K Y)
3 <5@C @ "<' B<' !@C=<a<" 2AA<2' ;' / <-<' 4A 0<25' ' 2' !A42<2' :2B'
$ ":-40 K Y *KZE)' 'G 01' <(' K W)
<8B&%)' <' <0>:B<"<2' 22B' B<' 5@C=<a< 5@C<' 9Y<:"840"4" ;' 64C<' K K)'
^: @9)' K W)
<80-<& ' /0<2<!<9 " 4")' <2)' K &
""&)' $< @9<0<'" 455<24' J @:A4" 2' 4284 5<'<2' <0G< <E)' <:@99"<0)

!@9400<&)' B<)' 5" <'B<5' :A@5'5:55<5'42'5< G @<'B<' '12@<'5 :5'0<' <-:<'B<
4A 0B 2' (' !<@ 2B' B2)' (425; 2<)' K)
!<2 "G 2'$ 054@9& :2")' B;A <5& -42 54" 2'A 0"N:<'B<'04'!:55<& K)E
(<Aa-)' K 8)' 8
!" @90<&6)' 45' 2B<'B<' <0G<">' K K E)' $ 0"5@9<5'649 C2 9'B<'5@9=<a)'
B-<2 55<c5@94")E <2)' KW)
' 45'5@9=<a< 5@9<'60:2a=<5<2' ;'"0<C< -42-'G 4'K)'a:;'KW)'649 9:2B<")
<"<0 49 5@9 " c'! @40:2B'% "5@94 "5-<5@9 @9"<)E (<Aa-)' KW)'
C0<&)' ^2' 55 2' B<5' 42aBB5@9<2' <542B"<2' <294 B' 2' B<' !@9=<a'
K KE)' <2)' K WW)

/ 9242' 5 ":25)

4 &)' !" 4'B<0' 42" 2<' @2'B40'K '40 4' 25 "2a 2<'K)' (:-42)'
K)
$0:;<&6)'6)' <' 42" 2' 04;5' :"<'B<' <0G<">)' 04;<'649 C @9& $4 "5
U&' 42B')E
@@4 B&0<' 942 2<)' 5" <'B:' 404 5)' <2<G4)' K ZZ)
<4:<&]' <' 42"@;'!'" 80<2' 2'B<' <B 4" 24a<")' !'" 400<2)' K YY)
))3' $0"5@9<' <5 9@9"<'B<5' G42" 25'!'" 400<2)' !'" 400<2)' KW)
40 <&6)' & & 8:2' 5<@0<' Z' $4:"<& h @@ :2'" '"9<' '<2@9' B ; 2 2' 2'
<2<G4)_' 'G 05& <2<G4)' K YY &
B0<&6)' <5@9 @9"<'B<5' <2<' 0>5)' 'G 05)' <2)' K Z W)
400<<&6)' 5" <'B:' 42" 2'B<' 4:B)' (4:5422<)' KW)
$< $)' !" 4'B<004'!G aa<4'"4 424& KYWY K)' (:-42)' K Z)
$?!5&)' <!@9 @9"<'B<Z' /42" :5'(:a<2)' 'G 05)' ^: @9)' K U)
"5@9<& $)' <'/42" 2'^: @9'a:'^<'"B<' <0G<">' KYW K E)' ^: @9)' KW)'
!2?C<-<&6)' <5@9 @9"<'B<5' 9: -4:5& KYWY K)' '4 <2 BB)' K W)' 8
^5@9 >><& e)' <5@9 @9"<'B<5' 4 -4:5)' 4 4:)' KW)

4 '

<4:<&]' < ' <BC<-)' !'" 400<2)' K Z)
'5@9<&)' 'G 2)' 22<:2-<2'42')')'G 2'%4""<2=?0)' <2)' K Y)
'<?&)' 6)' 4:B<2a'G 2'!40 58<<="5)' '4:< <0B)' K W)
<55&)' 6 9)' 45A4'!<9=<a<)' <02)' K Z)
(2-2C:90&)' $9)' 0C)' !"4A<'KY K Z E)' !<@ 2B'<B2)' 45<0)' KW)
:="&)'G 2)' 425'G 2' <294 B& :8<;<5"<'B<5'<B-)'!"42B<5'^: @9':2B'
(42B4::2422'B<'!@9=<a)' ^: @9)' K)
$@"<"& B; 2B)' 94 0<5'$@"<"B<' @9<2 2")' <2<G<)' K W)
!%:5"<;C<-<&6)'()' 02<2)' <2)' K Y)
%?B0<&'')' (<C<2':2B' <=<@95<0'G 2' 0C)' <2--<)' 'G 05)' ^: @9)' K ZY)
%?55& ')'G 2)' (<C<2'B<'C<B<2'^! <9<' -< ;<5"<' 4G B'G 2'%?55& 4"<'
:2B'! 92)' ' A05)' ^: @9)' K Z)

!)' ; &')

'<2<'"&$)) <@:<0 @ ; A0<'" B<5 " 4GLH: @ A 8A4 4" <5 B: B< G0) K 'G 05)
$4 5) K Y)
4 5 22<"8) : 5 B<A @84 <'@ G 0<) g $4 8 K WY) 0
42B< 2@?@0 ABB <) K G 05) $4 5) KW8 KW) 8 ' 54 @ 2"!C ' 4 " @0<5 2
"9<5<G< 40 @ B<5 C?' $042 <08 0455 2& 4 2< 0& 42B C< 5)E) "
0"a<2B &) ') G 2) 2@?@0 A!B< B< ' 89"5 G 55<25@94 ") ") 2 B<
G 0) 'G 05) (<Aa -) K W)
64@&) 24A4 "<'<'" 0<' B< G (<'J 2 2<2@<'A< 5 ; <00<'<D< @B<'A4 ' 0<'
A<; <'@ 25:0 5: ' 2 " <'0<- 504" 2'@ G 0<) $4 5) K W)
(4G <00<&) ": B<5 5: ' 04' A @<B: <'@ G 0<8 $4 5) Ej)
(@ 8&6)) (<- 504" 2'@ G 0<&@ ; ;<@ 40<'<'" @ ; 2<00<'B< 04' ' 42@<) K'G 05)
$4 5) K)
4B<0 2&) (<'$ <; <' 25:0 0<- 504"<:) $4 5) K U)
4@'B<'!" 04 <) 4A 0< 2'4:' 25<0 BJ "4") $4 5) K U)
4-4 <B<'B<'4?<"&) (4'G <'<'" 0<5 " 4G4: F B4' - '" B<$ <4; <2<:) $4 5)
$4 B<55:5& 6)) : 5 B<'B '" @ ; ;<@ 40) 'G 05) :55<05) K)
$<0<" B<'04' (a<<& 6) A 2 25' B< 4A 0< 2' 5: ' B G< 5' 5: <"5' B<'A 0 " N:<'=' ' B4B ; 2 5" 4" 2) $4 5) K)
$< 25<&) 4A 0< 2' ' <'" 0<5' 0 5' @ G 0<5' B:' 25:04" <'" B<'J ; A <) (? 25)
K)
$ "40 5& 6))) 5@ : 5& 4AA "5' <'" " 4G4: D' 2BB "5' 5: ' 0<' B< 0B0) $4 5&
K ZZ)
$ <'" B<'0 ' A "42" BG 5 2' B:' B<'B<'A @<B: <'@ G 0<'A B5<2"B' A<') 2" 2 2'
:C 5") ; A ; <<'<B<'04' 94 ; C <'B<5' B<A: "<5) $4 5) K WZ)
$ A 5" 2'B<'0 '4?42" A : 'C: "04' <G 5 2' B:' B<'B<'A @<B: <'@ G 0<) ; A ; <<'
B<'04' 94 ; C <'B<5' BBA: "B5) $4 5) K W)
0!4A " 8 "' 4:' 2 ;' B<'04' ; ; 55 2' @94 -B<'BJ<D4 ; 2<' 0<'A <'" B<'0 'A "42"
<G 5 2' B:' B<'B<'A <BB: <'@ G 0<'A4 ') :A: 5 2"<; A5) ; A ; <<'B<
04' 94 ; C <'B<5' BBA: "<5& $4 5) K W
<-24 B&$)) <'J -4 54" 2' : B @ 4 <'<'" B<'04' A @<B: <'@ G 0<'<2' ' 42@<)
K)
<G:<'@ " N:<'B<' B- 504" 2'<'" B<': 5A : B<2@<'> ! ' %
<G:<'9 5" B@' B " 4 2 @5'<'" 42-<) B0)' D &A)' YW)' $4 5) K)
!4A 4@&$) B- 504" 2'@ G 0<'B<'04' BG 0: " 2) $4 5) K WW)
!4 2"< <:G<) 554?' 2' $ "40 5) 4:5< <5 B:'(: : B(' 0)' G&AA)' Y ')E' $4 5)
K U)
!40G 0&) 'B <"" '5 @ 40E' B<0 B @<'@ G 0<' 2' <04a ; <'4 0 ' @0455L' 2 2' 4CC <2" '
<B' A< 4 <) $ B< ;) K WK)
!4G -2?& '))G 2) ; ' @ : ' : 25< <'^<'" : ' <5<"8C : 2 -) B' <B2) < B<0 '
C< -) K8Z)
!BG 2&) ": B<5 5: ' 0<5 - 2<5' BG :" 224 <5 B 5 B<5 4A 0B 2) $4 5)
K YW)
9Ba4 B&) () <'J 2B4<2@<'B<5" 4G4: D' B<'$ "9 <'<'" B: ' @942@<0 B 'BJ - : <55<4: '
5: '0<'B '" @ G 0' ; B<; <) $4 5) K)
B0<'&$) 5" <'B: 'B '" @ G 0' 4284 5) $4 5) K W)
^4@94 4'G 2'0 2-<2"940&)e)' 42BC: @9' B<5 42aB5 5@9<2' Gc <@C"5) Z'G 05)
< B<0C< -) K Y) ' <2@9' " 42504" 2' C?') : C ?' 42B') 42) !" 455C: -)
K Z Z)E
' ' : G<8< 5' 00<@" <2' '04=5& <"@)F' B ; 2B 042@J5' @ G 0' 42B' 4B ; 2 5m
" 4" G<'25" ": " 25' ' 4A 0< 2F " <' ; 54 5 ' '" B<' 0 & 42B' 9 C4: B<4: J5
9 5" ?' '"9<' ; 5: 04"<'42B' 6 ; A <& 'Q% =' '" '/# .#

))

(( )

) $ (#)

! - 1 2 + ' , $

e+! 5

9< < 5 : 2A : 90 59<B ; 4"< 4 ' "9< <04" 25 9 : @9 42B ! "4"< 2 ' 42@< 2 "9< 4" 240 @9 G<5H $4 "? 2 "9< 00 = 2-8

' * Y WZ)
A **' & Y W& K Z KK & K Z)
$ [' K Z K & Z U & K W & Y KY)
' 8 K ZZ K Z & K KY& KZKZ KZKW& K Y KW)
)

" "9< ; 9 5 44 0 C 4 ?& 042& 42" G42 J5 3 ? O R
KYW K Z& "9 =5 5 ; < 0 + 9" 2 <@@0<5 45" @40 A 2 25 2 "40? : 2B< 4A 0< 2J5 : 0<)

" ! + 3 + !

: 04? B< 04 8 < : "9 <& @ : ; <2"5 5 : 04 2 < 8 4" 2 B : 2@ B4") G 05)
B<0<"< BJ9 5" < B A0 ; 4" N : <)E $4 5) K WK Y)
B B ; 2 40 B< J ; A < $ 4284 5) $4 5) K)
< < ; 2 <5 <" '<"<5 B : 54@ < <" B : '@ : 22< ; <2" B< (()) 4A 0< 2 o& <"
5 2 4 : - : 5"< BA : 5<) $4 5) IK)_
<5A 2B42@< 4 : "9<2" N : < B< 04 @ : B< ; < 4G<@ 04 ' 42@< B<A : 5 J 2G45 2
B< J "4" ; 4 2 : 5N : J4 J<20<G< ; <2" B : 5 : G< 4 2 A 2" <& 5) (& K W) !<@ 2B
<B " 2) $4 5) K KZ)
@ : ; <2" <04" G 400< @ 2"<5"4a 2 25 "< 4 04 !42"4 !<B< <B 0 - G< ; '
42@<5<) IK K '@)_
B ; <5 <" @ <5A 2B42@< A 0 " N : < <" ; 0 "4 < B : 6l 2@< e : - 2<& <B)) B :
455<) $4 5) K U)
$ "40 5& 6)) 5@ : 5& 4AA "5 <" " 4G4 : a 2BB "5 5 : 0< 2@ B4" B< K K)
$4 5) K ZU)
42@< : <?& CCB) B ; < 2BB " B< 2540G 5 : 0< @ 2@ 0< B< K KK)
$4 5) K W)
@4 B& -) <5A 2B42@< B A0 ; 4" N : < <" ; B ; <5 2BB "5 B : 4 B 240
4 : ? KYW K KYE) (00<) K WK)
! @9 <00& ') <@ : < 0 B<5 A <@<5 @ <00<5 B<5" 2B<5 BB" ; A< 0<5 ' 4 : 84 5 5 : 045
BGB2< ; <2"5 N : 5< 5 2" A455<B B<A : 5 N : <0N : <5 422B<5) $4 5) K KZ)
!<< 405 <5A 2B<2@< 4A 0< 2 > ! Q =

9 ! = # #

5" 5& $)))& 4 B 240 B<) 5@ : 5 52 ' 0< B"4C0 55< ; <2"' B< 04' <0 - 2' <:'
' 42@<) $4 5) K Y)
' <5 BG<N: <5 2 ; ; B5& <"' B< 0< : ' <2G ' B425 0<5 8 5<5) $4 5) K KK)
' <5 4AA<05 @ ; ; < B 4C : 5) $4 5) K KZ)
4 40&) 6) B<) ' 4- ; <2"5 <04" 1 Z K0 5" <' <@<0B5 45" N: < B<5 A < ; < <5 4 2 2 8'
B:' D D ' 4<B<) $4 5) K KZ)
4 ; <0& J4CC<') <"4 0 B<5 4 5 25 AB < ; A" <5 N: ' : "' B<"< ; 2< 0< @0< -<'
B< $4 5 <"' B J4 : " <5 B @<5<5 4 1 < 04' B<@04 4" 2' B< BB0 "B' <D -B< A4 ' 04'
<A: C0 N: 4 (2B 2) K)
' :' A4A<' <"' B< 5<5 B "5 <0 - <: D' Z K @@4B 2' B4' @ 2@ B4") $4 5) 2' D2
K E)
' (J L0 8G42- 0< <"' 0< @0< -B' 4284 5& 5: ' 04' 5 2 ; 55 2' B<5 A45"<2 5& B425 0<5
1 <G 0: " 25 B<5 < ; A <5) (2B 2) K)
<4: @94 ; A&) B<) 5" <' B<5 ; 40C<2 5 <"' B< 04' <4A" G "<' B<' $ <) $4 5) K KZ)
:0 -2<&)) B< 59 A' ' ?<5E) $42B-? N: <5& 4 5 25 : 2<C <5 <"' 4 : " <5
B 5@ : 5) $4 5) K)
94"<4 : C 42B& '))& @ ; "< B<) (< -B2 < B :' 9 5" 42 5 ; <) $4 5) K) 0
2540G &)& 4 B 240) < ; <5) B) 6) <" 2<4 : 6 0?) $4 5) K Z)
4 : 2 :& $)) ') 554 ' 9 5" N: < 5 : ' 04' A : 5542@< "< ; A <00< B<5 $4A8) $4 5)
K K)
; < ?& CCB 6)) (4' @ 2B : "< B< 0J + 0 5< B425 04' B@<A" 2' B<5 ; 2 5" <5 B< 04'
<0 - 2' N: ' <G <22<2"' B< < <5 < :' B : ' 5@9 5 ; <& B<A : 5' J4-< B< 54 2"' ?A <2'
: <N2J4 : D' B< ; < 5' 5 C@0<5) $4 5) K (
8 <&) 5" < B<5' 5<@"<5' <0 - < : 5<5))) B<A : 5' 0< @ ; ; <2@< ; <2"' B : ' 5 <@0<'
B< 2 < ' : 5N: J Z' ' <A N: < 4@" : <00<) $4 5) K)
3 ' 554 ' 9 5" N: < 5 : ' 0<5' 0 C< "<5' B< J -0 5< -400 @42<) $4 5) K K)
M8 ' < ; <5) $4 5) K Y)
64 : B ; "& 6)& ; "A) B ; <5' 9 5" N: <5' 5 : ' 0<5' 4 4 <5' <<@0<5 45" N: <5' B< ' 42@<'
A<2B42"' 0<5' A < ; < <5' 422B<5' B : ' B D 2< : G < ; < 5 <RB<) $4 5) K)
$4@@4&)& 4 B 240) < ; < 5" @9< B<0 ; 2 5"< & B J B : < G 4 - - ' 2' ' 42@ 4&
<' BB04' A - 2 4' 2<0 "<' B ' !) ; B ' 2' ' <2<5" <00<) G <") K Z)
' ' ""4J5" 5" ?' ' "40?& 42B < ; 5' ' <""< ; @9& ' ! ' Q ?
6 4 =' ' ' "9< < ; 5' ' : <22<& 94"<4 : C 42B& '" B< B0 " & ! 4G4 ?&
& 4 <? 42B& 9 C4 : B<4 : & 42B' "9< [25 B< 4" 25\' ' 4B) B< ! "4 ! 0& ' Q ?
+ =' ' F ' /# . #

'

9

B4 B& ')) (4' BG 2" 2' 4284 5<' <"' 0<5' @ 2 - <-4" 25) $4 5) KW)
2' 4 " @0< 2' "9< # : - : 5'' K& KW Z)
4 554@& 6) (< 2@ B4"' B< K K' <"' 0<5' 4 " @0<5' -42 N: <5) $4 5) K YW)
< &) <5' N: 4" < @ 2@ B4"5' B<) $ 4B"& : ' C5< G4" 25' 5 : ' : 2' A4554-< B<
@<"' : "4 - <) $4 5) K KW)
B&) 8"' : B< 5 : ' 04' @ 2B " 2' : B N: < B<5' < -0 5<5& "< ; A0<5& A <5C "< <5) 2m
@ B4") " @0<5 -42 N: <5) <@ <"' B< K W) (5' ; : 2 @ A40<5' B< K Y <"'
B< K Z) $4 5) K W)
B : 04? B< 04' <: "9<& ; "<) (4' 2B - @ 4" 2' B : ' 2@ B4") (< <5A 2B42"' :
05) @DD4& @DDG& @DDG) K K)
94 ; 4 B& ; ') (4' <G 0: " 2& 0< 2@ B4"& <"' 04' 0 C< "< <0 - <: 5<) $4 5) K WK)
9 "4 B&) (< A4A<' $ < ' Z ! 4G 2<) $4 5) K Y)

: 04: ; <(J4CC '$)) < A 5@ A4"< B< 8F2< *' 4" 4<G0 c B "<8' 5 ; 2B8'
G<N:< B< 42@?) 42@?F K)
(? 22<"(J4CC ' 6)') 5" < B< -)' B0 G 42' B:' 58B< ! 42a4? ') 0?A 5' 42B
$4 5)' K ZY)
' (< 4 B 240 ' <5@9)' (? 25' 42B' $4 5)' K Z(
455 2(')' (J ; A 4" @< 4 < (: 5< K W KUE)' $4 5)' KWc)
<( )' 5" < B<)' ; < ?' <"' B< J -0 5< B< ' 42@< A<2B42"' J 2 A B)' $4 5)'
K U)
$: :04"(6)' 6)' ')' (< 4 B 240 4: ?(54' G <(5<5' <:G <5)' $4 5F K UW)
@4 B(-)' (< 4 B 240 ' <5@9)' $4 5)' K W))
C< "(')' B<5)' (< 4 B 240 B< (4"" < ' B< 4?42< BJ4A <5' 5<5' ; <5' :<B "5)
) $4 5)' K WK)
< 94<-<2($)' (< ; "< $4:0 G42' B< ' <@><2)' $:C0@4" 25' B< 04' ! @ <"<
9 5" N:< <"' 4 @9< 0 - N:< B425'0<' B:@9< B< 0 ; C : -)' 0)' DDD(2<=' 5< <5(
G 0)' x(K W)E 4<5" @9")' K WZ)

) #)

$ # !)

40C< -(/)')' ' < 9< ' G 2)' 2' B< ; ' ' <B<2' B< ' / @9< 2' B 0' !"44"<2' B< '
9< 2 5@9<2' 2 B< 4" 20)' ' 42> ")' K K)
4C< 0 2( )' ')' <:"5@9<5' !"44"54 <9 G)' <0 ; 5"<B"' 42B' (< AB8)' KYW ' <"' 5<NN)'
4 (6)' $)' :G<4: 7F @94:-< ; <:"5' B425'0<5' <"4"5' <"' $80 5< BJ 00<2 ; -2<"' < 0 2)'
K Z)
/ ":<C< (6)' ()' <C< 5 @9"' B< ' B A0 ; 4"45@9<2' 8942B0:2-<2' B<5' % <2C ' 2m
- <55<5(:C< 94:A"(<"@)' ' 42> ")' K K)
c4 ( )' 5"!2B -< !4 ; ;0:2-' 400< ' 40"< ; ' :2B' 2<:< ; ' / 2> B4"<(2<C5"'
< 2< ' <5@9 @9"< 9 <5' 2"5"<9<25' :2B' 9 < ' !@9 @>540<)' (< Aa - ' K K)'
9< 2=40B( )' ')' ' @"4' 9 5" @ <@@0<5 45" @4' D D)' 54<@:0)' ' 05)' < 0 2' 42B'
4 ; C: -)' K Y Z)
5> GB2?( )' B<)' 2: ; <2"4' @4"9 0 @5' A ' 2B<A<2B<2" 4' A " 5"4" 5' <@@0<5 45" @4<
4C' ; A< ' BG 0)' ' :2 > @9<2' 42B' <224)' K ZY U)
S3 ' < ; 4" ; 2 5' ; D" 5' 2"< ' @4"9 0 @ 5' <"' A "<5"42"<5)' ' 2 > N9<2)' K Z)'
%<55<2C<-E)')' ' < 9< ' G 2)' < B<:"5@9<' / @9<(< 2' 5@904-' ! ' 9 <2'
2<:<2' <- 22B:2-' :2B' 2 @9" ; -)' ^: @9)' K KU)
33 ' < 2" 04@9"' a= 5@9<2' B @9<' :2B' !"44"))))eB)' ' 6 5<A9' @>)' 4 4:)'
K W)
% 2> AA($)')' < ' 9< 2 5@9<' :2B)' ' 42> ")' K KZ)

'

<4:0<:0B4 < 222?')' G 2(4 2)' / 4 0' G 2' 40C< -' :2B' 5< 2<' ^< ")' %< ; 4)'
K YW)
<88 4:5( )' <2"5@9042B' ' 9:2B< "' 649 <2)' (< Aa -)' K UW)
@>( )' <' 4" 240 5" 5@9<2' <5" <C:2-<2' ; ' >4"9 0 5@9<2' <:"5@9042B)'
K U)
3 ' <5@9 <9"<B< ' ; 0 5<9<2' / @9<' ; ' D D)' 649 9:2B< ")' 4 2a)' K Y KW K)'
' B"< ( ))' ()' !"2B <5' 2' 4A 0< 2 @ !"4"<5 ; 4259 A.' < ; 42?)' D B)' KW)'
4 ; 58 $*')' <-B <9"<' B< ' / @9< 9 5"' ; ' 2<:2a<92"<2' 649 9:2B< "' ; "'
C<5 B 8' 1<>5 <9' 4: ' <:"5@9042B)' 225C :@>)' K UZ)' S
/ AA(F (<' >41<0 5@9<' / @9<' ; ' D D)' 649 9:2B< "<(:2B' B < a< "-< ; 455<'
2 -<! "40"22-' 9 < ' 4:55< <2' < 455:2-)' 4 2a)' K)
B"2< (6)' <5@9 <9"<' B< ' <2-0 5@9<2' ' !:0< 2' :2B' 9 < ' 25" ":"<' 5< "' 9 < '
2B:2-' C 5' 4: ' :5< < <")' <-<25C: -)' K W)

) 0)

n
>

e <5A9 @9"< B< B ; 5@9 B<4"5@9<2 + 5" @>) K YK)
A3 < @ B4"5G< 0: B0:2-8<: % ""< ; C< -5 649 < K Y) !": ""-4 ") K UW)
:2@9( ) 08 ; < 2 <5RB R8"< B< >4"C 0 5@9<2 / @9< G 2 B<2" 2B< B<5 " B<2" 2 4 9 2 / 2a 0 : ; 5 C 5 4" 25< < 48<) / 4 05 :9<) K8 Z) 2C< -< ( ) B) $4A5""":2 :2B / @9<25"44" 0)) 2" B< :5 C 5 a: 9 < < ; 2-542" "" $:5 X) K Z E) 4 2a) K WY)
' -<2< 40 = >5 C? ! :55< (/) <2a<0(42B $< "9<5 R0<2242?E <C:9 (!@90 55< (42B %4@95 ; :" / : A<E(5<@ ! Q 6 % + %

(@42 o '

AQ 6 !

4B< ( ) < >4"9 0 5@9< @9< ; 559< ! -"9: ; 4B<A) ' < C: - ; V K)

Q

< B"<0( ) 2"< 54@9:""-<2 9< B < > @90 <9<9 :82B< 2 B<2 >4 5< 0 @9<2 5"< < @9 5@9<2 !"4 "<2) <224) K ZW)
I 0< ( )))&G 2) 2@ B4" :2B 25" "2" 25< B B< / 4"9 0 ><2 2 4?< 2(< 2< 9 5" 5@9< <2>5@9 ") : -5C: -) K ZY)
< 5 (G 2($ 04 2B< G 2(42B - -<0) " 4-< a"" <5@9 @9"<(!"4" 5" >(4": >:2B<(:2B / :25" G 2 0 :2B 4 0C< -) 225C :@>) K U)
$ @>0( ) < / 4A:a 2< 2 2 4?<;) ! :0aC4@C) K)
4AA(6) 0 ; 649 < K W) 225C :@>) K)U)
< 54@9(/)) '))(4 G 2 !"< 2C< -) 4?<; :2"< B< <- < :2- B<5 2 5"< 5 G 2 2"-<045) (< Aa -) K K)
2-5< 5(6)) G 2) 22< :2-<2(-<54 ; ; <0"(< -!2a" :2B 9< 4:8<-<C<2 G 2 ; 0 < 2-5< 5) 0) <--<25C: -:2B "2C< -) K)
! @9< < ( ) G 2) !"44" :2B / @9< 2 4?<; (KYWW K K) :2@9) K YZ)

B<05@9= 2-9( ) G 2) (<C<2 B<5 C< $ 45 B<2";' < 9< ; G 2 2@><) < 0 2) K U)
:< C< (6) :2 ' 42a (< A 0B (<C< ; 422) ' < C: - ; < 5-42) K)
<@>< "( ) 42BC:<9 B< > @90 @9<2 <5<"a-<C:2-$ <455<25) < 0 2) K Z)
A0< (') < < :2B 4-<C @9< B<5 ' : 5"C 5@9 C G 2 4 <042B 6 5<A9 I% 09<0 ; ' B @9 G 2 9<2a 00< ;) 4:25C< -) K)
(45A<? <5(e))) <5@9 @9"< :2B 9<:" -< < 455:2- B< >4"C 0 5@9<2 / @9< $ <:55<25) 400<) K Z)
(<9 ; 422( ) $ <:55<2 :2B B < >4"9 0 5@9< / @9<5< " K Z (24@9 B<2 @"<2 B<5 -<9< ; <2 !"44"54 @9 G<5) $:C0 @4" 2<2 4:5 B<2 >) A <:55 5@9<2 !"44"54 @9 G<2) E (< Aa -) K K)
4 D(6) <5@9 @9"< B<5 a!" "5 < (B) 9)(B< ! "4B" < :2B B<5 < < ' (42B<5(405 / : 5"<2": ; :2B 405 aB @<5< G 2 B<2 40"<5"<2 ^< "<2 C 5 ^: ; ' 649 < K K) <) K U Z)
2"<0( ) 8)) <0<:@9":2-B< <2>5@9 " B<!<G42-<0 5@9<2 C< > @9<2 4"9<5 C<" < <2B B < < ; <9 :2-B< "4" 2 B< <G42-<0 5@9<2 / @9< 2 $ <:55<2) <-<25C: -) K U)

6

@>&) < C< 9< 2 5@9< / @9<2A CG 2a G 2 eC < 2B:2-C 5a: <-<:
=4 " 4 2a K)
0<C<&) 2 !4@9<2 B< C< 9< 2 5@9<2 / @9<2A G 2a ' <C" - ; <5-42
K U)
(-2<&) G 2) <"4-< a: <5@9 @C"< B< C8 C< 2 5@9<2 / @0 4A G 2a&
:C 2-<2) K)
< 2-<&) <%< 9C 5@9 < G 2 % 0 aC: -) %: aC: 8) K U)
<;02-& ') X) <5@9 @9"< B< 5@9 < a:! A<?<) 4 2a) K U)

&) () 005"42B -<8 9 5" 5@9 :2B < "8@> C<4 C< "<"< !4 ; ;0:2- B< =
""< ; C< - 5@9<2 <5<"a<) 0) K ! 4 ; ;022- B 8 >4" 01B <2 / @C<2
eB) 6 9422 64> C (42-) :C 2-<2) K)

) ! $)

:@8) < -<9< ; <2 <5<005@94 "<2 ! A42 <2 4BB ! "<09"2- a2 @9<
:2B ! "44")))C 5a: ; B< ' < B 242B5) 4 2a) K K)
(4 ':<2"<&) @<2"< B<) 5" 4 <@@0<5 45" @4 B< 5A4 4) (') 4B B)
K YU)

d 2) $! ! 6 %!)
<5@94 ; A5&) (<5 5 @ B"B> 5<@ <"<5 <" 04 5 @ B"<& 2 AC 0 5 A9 <B< 4 5" <@ 2
"< ; A 4 2<) G -2 2 42B $4 5) K _))
'42@9 0<& $) (4 N:<5" 2 : G< <2 ' 42@ 5 :5 0< A < ; < ; A <) $4 5) K Z)
'! @<&) B<) 5" < B<5 A "<5"42"5 B< ' 42@<& B<A:5 ' - 2< B< 04 < ; 4
" :' :5N:4:"< ; A5 A 8 2 ") Z"9 <B2) $4 5) K K)
0<;422& CCB6) 48B 2 K[' <"0<5 5 4<0 "<5) (4 A <A 2B< 42@< : G<: B<:D<;<
A4 "<35 2 -5 ; 54" <2) $4 5) K WZ)
4" 240 @9 G<5& $4 5& ' & KY K ZW)
<24@9&) 5" < B<5 5 4<0 "<5 B<A:5 04 : 2< B< 0<: 2B<A<2B4:@< :5N:4
2 5 : 5) 2B <B2) $4 5) KW K)

) G:)

B ; 40"?& ! <@ <"4 ?& b 2 : "<5)\' 05)' KZ K Z)
5@<0042<4)' 2 ; 4" ' 45' " ' <R ; G ?5& A455<5& 5 -A 405&
0 @<2@<5F 405 ' 4 B' < ; ' 6 : 2405)8' K 0 !)E
2' "9<' b B ; 40"?& ! <@ <"4 ?& 2' (<"" < 5&\' 4 <' 405 ' " <' 0<"" < 5' ' 4A"4 25' 42B'
0 <: "<242"5 ' ! 9 A5' : 2B< ' "9<' 2 " 405' ' "9<' @< & ?<4 ' C?' ?<4)
9<' %4 ' @<' <@ B5' @ 2"4 2' <A "5' 42B' 4A4"<9<5' @ G< 2 -' "9<' G4 :5'
<DA<B " 25)
2' "9<' " 59' :5<: ; ' 4 <' "9<' $4A< 5' 42B' -<2< 40' <5A 2B<2@<' ' (B'
<05 2& @4"40 - : <B' 2' "9<' b BB " 240' 42 : 5@ A"5\ .
0>' Z& WKW Z& W)' <2< 40' <5A 2B = @<& K)
Z& W)' @ 40' <5A 2B<2@< 3 (<"" < 5' " ' (B' <05 2' ; ' "9<'
B ; 40"?)
Z& WZ K)' ! <@ <"# 2"<00 - <2@<' 42B' 2"< @<A"<B' (<"" < 5)
Z& W)' $ G4"<' 4 ?' ' (B' <05 2& K U)
"9<' " < ; 5' ' 2"< <5"# 4 <' "9<' 5 - 2405' : 5<B' 2' 0 <' 4 40 - 4 ' 4 ; A4 - 2& 42B' "9<0
B< >5' ' "9<' b 42 A : 5\' 42B' b <4B2 : - 9 "\' 2' "94"# @4 ; A4 - 2)
28"9<' @9 G<5' B<' 04' 4 2<' 4"# $4 5' 5' ; : @9' ; B< 40& 2@ : B 2 - ' ! 9 A5' (- 5&
B ; 405' <5A4"@9<5& <A "5' ' : "5' 2N : ?& 2"<00 - <2@<& B ; <5' <"#
$ <"5) 0 9<' @4 ; A4 - 25' 4 <' - G<2' ?<4 ' C?' ?<4 F 25' 410 - 4 ' = 00' C<' : 2B' 2'
0!8@ 2A4 - 2<5& K)\
2' "9<' @9 G<5' B<' 04' : < <' 4"# $4 5' 5' ; 4"< 40' C<4 2 -' 2' "C<' ' <2@9' A <@"5.
2G45 2)
"9<' ' : 2A : C0 59<B' ; 4"< 40' 2' "9<' ! A42 59' 42B' : "@9' @9 G<5)

0' (' !)

042@94 B)') ') <A< " <' - B 2 8 0' B<5' (5))) : ' 04' 4 2<)' ' G 05' $4 5)'
K ZW W)
24A4 "<5 - 55<' $042' a : C< : 2 -' G 2' 55C "422 <2)' 2 2)E (2B 2)' K Z)'
2" 2 -&) 2 - 042B' 42B' 4A 0< 2' 2' K & C< 2 -' "9<' <5A4"@9<5' ' (B'
"= "9)' 0 2B 2)' K Y)
00 2 - G B&) ( )) ' ! <0<@" 2' ; ' "9<' $: C0 @' 42B' $ G4"<' <5A 2B<2@<' '
@< B ; 40' (B' 00 2 - = @(' (2B 2)' K)
C<"# 6)') ' - 9" 2 -' 25" : @" 25& K K K) 4G?' <@ B5' ! @ <"?)E (2B 2)'
KW U)
4 ; 0" 2& B ;) ! ') <5<?)' 6 : 2405' 42B' (<"" < 5' ' B ; 40' ' "9<0 ' 0<<"#
')) 4 " 2& KYY K UZ)' 4G?' <@ B5' ! @ <"?)E ' G 05)' (2B 2)'
K W KW) 2B< 8' 2' G 0)')E')
64@>5 2& <4 B ; 40') !) (- 5' ' "9<' <4"# ! <4' ' - 9"5)' KYWZ K) 4G?'
<@ B5' ! @ <"?)E ' G 05)' (2B 2)' K WW KW)
0<2 - 9" & 6)') @ 40' @ : ; <2"5' 00 : 5" 4" 2 -' "9<' ! @ 40' (<' 42B' 2"< 240'
5BA0 2<' ' "9<' 4G?' 2' "9<' K "9' <2" : ?)' 4G?' <@ B5' ! @ <"?)E (2B 2)'
2' A <A4 4" 2)E
0<?042B& 6)' 5A4"@9<5' 42B' (<"" < 5' <04" 2 -' " ' "9<' / @>4B<' ' <5"# ' G 05)
84G?' <@ B5' ! @ <"?)E (2B 2)' K WW KW)
<0G 00<& (B)' ! A<<@9))) 2' "9<' : 5<' ' $<< 5))) <5A<@" 2 -' "9<' ! "4"<' ' "9<' 4G?)'
(2B ;) K U)
5 2&) +<' 4 ; 0" 2' 42B' <05 2' $4A< 5)' ' G 05)' (2B 2)' K W Z)'
$ G4" ?' A 2"<B)
4G40' 9 2 @0<& 9<)' (2B 2)' $< B @40)E K K)
@ 045& ! ')) 5A4"@9<5' 42B' (<"" < 5' ' @< B ; 40' (B' <05 2)' Y' G 05)'
(2B 2)' K ZZ)
$4A< 5' <04" G<" ' "9<' 5@ : 55 2' = "9' ! A4 2' 2' K Z)' (2B 2)' K)
$4B<?&)' %)' 554?' 2' "9<' 0 "4 ?' $ 0 @?))) '"9<' " 59' ; A <)' (2B (' K KK)
) 2)') X) 2) G ;)

K

A "" 2 B2 4 $ 9 4" : 8 8<2@ 25 :04 ; A < ! :"94 ; A" 2 K K
<@ : < B<5 0 5 <04" G<5 04 4 2< KW G 05 $4 5 2 G K K)
< ; 4@0< ; "< <04" 25 5<@ <"<5 B<5 4-<2"5 B< (: 5 X)))5 : 5 0< 25 :04")
$4 5 K WW)
<A "5 "9< ; ; 55 2< 5 2N : ?" 2" "9< <-84 " <5))) 2 "9<5<G< 4 4G4
<A4 " ; <2"5) KU A4 "5) (2B 2) K 8)
! "<<0 4G B) ! "<<05 4G4 C 2 0 - 5" "9<%4) (2B 2 2)B)
S ! "<<05 - 24 ; B <@" (5" "9< ?4 4G?) (2B 2) $< B @40)E
K K KU)
! : ; ; 4 ?" @@ : 2"4 "< C2 "5 5 < ; 4BB <55<B " (: 5 X <@ ; ; <2B 2-
" "94" "" B "9<@ 2N : <5" e8?A" <"@) (2B 2) K)
4C :04 ! "4"< ; <2" "9< : ; C< ! <4 ; <2))) ; "9< ?<4 KYU 2@0 : 5 G<)
$4 0 4 ; <2"4 ?" <" : 2 K)E (2B 2)
4A<4 %) < ;))) " <5A 2B8 <4 <5A4"@9<5 42B "9< $4A< 5 5@ : 2"
45"0<"<4-9) K 05) 0 2B 2 K Z U)
" "9< 2 "<c 42B "9< A< B @405 CC<""5 <C4"<5 %<00 2-" 2 5 5m
A4"@9<5 4A 0< 2 5 <5A 2B<2@<4 42B R8 : <00<4 4A 0< 2" <" J 2-0<"< <4
QO% =#

) (% / ! (E)

:2 2)

94C42B ; 4 :0"4) 5" <B<5 0 "0<5 ; 0 "4 <58 $4 5) K W)
0 ; C B ; 40 $)) 4G4 %4 1 <) 2B <B2) (2B 2) K WU)
: ; 45 ; "<) $ B@ 5 B = BGB2< ; <2"5 2 0 "4 <5) 05) KW) $4 5) K KW)
> 25 B ; 40) 4G4 4""0<5 ; KYZZ" "9< $<4@< 2 K KZ) (2B 2) K Z)
6 : <2 (4 4G < <4 e 2< 5 ; 4 " ; <5 5 :5 04 BA2C0 N2< <" J ; A <)
G 05) $4 5 2)B)
( ) " : B<5 B 9 5" < ; 4 " ; <) $4 5) KW K)

0 2 ;)

<2" 2 4A"4 2 $) 9< 4G4 5" ? 4 2) G 05) (2B 2) K Y)
0 =<5 ! %) (9< ?4 4G?) (2B 2) 0W) @ (G)E 2 A - <55)E

:B 2 () 5" < ; 4 " ; < B< 04 ' 42@<) G 05) $4 5) K UW)
: -) ' 42@< 0 "4 <) : G 4-@ <B -B)))B 4A < !))) 0< 2 "< :)))0<5 @ : m
; <2"5 @ <05) U G 05) $4 5) K U)
! @4 B ') 5" < B<5 25" " : " 25 ; "4 <! B<5 ' 4284 5 5 : G < B : 2 4A< : 5 : '
04 4 2< ; 0 "4 <) Z G 05) $4 5) K Z)
: B<) 4"4 00<5 24G40<5 B< 04 ' 42@<) Z G 05) $4 5) K Y)
@" <5 2N : <"<5 B545" <5)))B<5 ' 42 ! 5 B< KYW B K KU) Y G 05) $4 5)
K KY K)

' 4942 ! <4 $ =< E 64 ; <5 4G4 5" ?E 42B 9<G40 < ' ' <2@9 4G?E
! 'Q =

2 $ ' ! ,

: " 6) ') B<) 5" 4 B< 04 4 24 <40 5A4 04) G 05) 4B B) K UZ)
B 2-< 6)) B<) <5@9 <B<2 5 G42 9<" <B< 042B5@9< ^<<=<a<2) G 05)
9< 4-: <) K Z)

4G4 <"<&)' 5" 4' 4 " ; 4' 0 "4 ' B<' 5A4 4)' 4B B)' KW K)' 2'
A - <55)E
42B4@@ &)' !" 4' B<00<' 4 2<' ; 0 "4 ' "40 42<' B<0' KYU '40 K)' ; <)' K)

)' $ (' % / !)

/ $ ' !$ &)

4 =& 6)' (<' 42B' <5A 2B<2@<' ' B ; 40' ! ' %)' !)' ! ; "9)' ' G 05)'
(2B 2)' K Z)
<4""?& ! '%)' : "9<2" @' 4 4" G<' '"9<' <4"9' ' <05 2)' (2B 2)' K Y)'
<G42&)')& 42B' % 0 ?@9< %9 " ; <&)')' ' !4 0 ' ' / 2-' < -<)' 9<'
6 : 2405 ' 4A")' ')' ; 42& KYW K KZ.)' (2B 2)' KW K)
<2" 2& 4A"4 2')' $)' (<' 42B' <5A 2B<2@<' '6 92& 4 0' ' !'' 2@<2"& '
B ; 40' ' "9<' '0<<")' ' G 05)' (2B 2)' K)
22B 240B& 4 0')' 9<' : " C - 4A9?' '4' !<4 ; 42)' (2B 2)' K K)
4 B2< & ; ; 42B< '6)')' < ; 2 5@<2@<5' & KYYU K)' B "<B' C?' ! ')' <5<?'
/ 4 ; 0" 2)' 4G?' <@ B5' ! @ <"?)E (2B 2)' 2' A <A4 4" 2)E
5"<& (4B?')' < ; 5' 42B' (<""< 5' ' 4A"4 2' ! '%)' 5"<)' 'G 05)' (2B 2)'
K)
(G<00& @< B ; 40' %)' !)' $< 5 240' 4 4" G<' ' G<2"5' ; ' KYWW " ' K KU)'
2B' <B2)' (2B 2)' K YW)
4A< & 4 <2)')' (<' 42B' <5A 2B<2@<' ' B ; 40' ! ')' 4A <)' 'G 05)'
(2B 2)' K)
$4 5 25& (<: ")')' !)' <05 2 42' < ; 2 5@<2@<5)' (2B 2)' K Z)
55& 4A"4 2' ! ' 6)' < ; 5' 42B' <5A 2B<2@<' ' B ; 40' (B' !4 : ; 4 <a)'
'G 05)' (: B 2)' K)

' ' 1$

<22<N: 2& 6)' ')')' - 4A9 <' ; 4 " ; <)' 'G 05)' $4 5)' K U Y)
@<2<& $)' (<5' 4 25' 42 4 5)' 45)' K Z)
4 5940& (<: "<242" 6)' ?40' 4G40' - 4A9?)' K 'G 05)' (2B 2)' K U)'
? ; <& %)' 4G40' - 4A9 @40' @" 24 ?)' (2B 2)' K ZW)
40 <& 6)' 4G40' - 4A9?' ' <4" "4 2)' Z' G 05)' (2B 2)' K)

4 B?@<&)' < ; ' ' "9<' 2)')' /)' 0A9 25" 2<& /))& 5@ : 2'" / < "9)'
(2B 2)' K)
<2& 6)' < ; ' ' "9<' (<' 42B' !< G @<5' ' B ; 40' ! ' %)' 4 - B)'
<<2= @9)' K ZK)
@9 < & 6)')& (4B?)' < ; ' '"9<' (<' ' B ; 40' ! ')' B 2 -" 2)' 'G 05)'
(2B 2)' K Y)
<2" 2& ! ' ()')' $)' < ; ' ' @< B ; 40' ! ' 6)' <2" 2)' 2B' <B2)'
(2B 2)' K U)
9455< 4:& ')' <' B<' J ; 40' : A< <)' $4 5)' K Z)
94"" < " 9& < - 424& (4B?)' < ; 405' $< 5 240' 42B' 5" @40' ' B ; 40' (B'
4 ; C <)' 'G 05)' (2B 2)' K K)
04 >& 6)' !)' 42B' @ "9 : & 6)' (<' ' B ; 40' (B' <05 2)' 2B' <B2)' 'G 05)'
K Z)
'4C"<&)' (<' 2" < ; 40' : G<")' $4 5)' K Y)
E4 <2 (4' 4G < <&)' (<5' 0 <5' ; 4 " ; <5' B<' 04' ' 42@<:' (J ; 40' 4 : B 2)'
$4 5)' K)
' (<5' 0 <5' ; 4 " ; <5' B<' 04' ' 42@<:' (J ; 40' 255 2)' $4 5)
' ! : G<2 5' B : 2' ; 40)' 'G 05)' $4 5)' K)

)G2) U 3

$ * . % &

O' 0 = 5 ' ' % 55 ')

B : 2&) 68": B<5 5 : ' 9 5" <' BJ 4 ") $4 5) K U)
5 2B 22< <) B ; <5 A '5<2B '4' J9 5" <' BJ 4 ") $4 5) K UK)
?< $<? <0<42& (' (<5 2" 00<5 ' 42@ 5<5))'825N:J4A'K G< ; C <&K KU) ' B5)
$4 5) K U) J
B=4 B58) 9<' 5" ?& G 0' 44B' @<0<5 45" @40& ' "9<' " 59' 0 2 <5 2' "9<'
%<5" 2B <5) U"9' <B2) ' G 05) (2B 2) K KW)
4-2 2 (4@ 5"<&) $) : 554 2" (: G< ": <) $4 588 B<4""D) K YY)
(4< >& $) < ; <5 A : ' 5< G ' Z K!9 5" <' B<' 04' BG 0:" :' B<' ! 4 2" ; 2 <)
'G 05) $4 5) K)
(42a4@ B<' (49 <& ( ) B<) < ; 40 B<' 6) B<' A G 25) 'G 05) $4 5) K WY)
< ; <5 B :' <2< 40 : 554 2" J 4G< ": <& B<2"5 A4 '04 ; < ; <) $4 5) K U)
B" 40&) 5" <' B<' J DA<B " 2' ; 0 "4 <)))Z' ! 4 2") ; 2 <) $4 5) K ZK)
$?<2&) B<) (<5 : <5 B<5 2" 00<5 B<' KYW 'Z' K KU) $4 5) K)
!" < ; ?& 6) <' B< : 554 2" (: G< ": <& $4 5) K Z)
!@9 <0@9< &) <' B< : 554 2" (: G< "2 <) $4 5) K W)

! ' : -' #' ' " @4' !

25 B< 4" 25 2' "9<' <04" G<' ! "4"<' ' 2 -042B' 2' K K) (2B 2) K K)
:' !?5"< ; < 2" 2<2"40) 4C0<4 :' B<' JB"4" A 0 " N:<' <"' ; 40 B<' J ; A <' ' 42m
@ 5' <2' K K) 2 2)E $4 5) 2)B)
B<2& ! ' ') BB <55 2' "9<' 4 " ; <' -89"5 ' <4" "4 2) 2B' <B2) (2B 2)

" 8 4"& & 4 ; C : -' : 2B' B <' 2" 2<2" B5A< <) 4 ; C : -& KW)
< 2 5& ! ' ') B<) <"5 B:' 0 @ : 5 2" 2<2"40 5 : ' 0<' @ ; ; < @<)))B<5' 0 <5'
"422 N : <5) 2B' <B2) (2B 2) K W)
/ <58C4@9& %) <' 2" 2<2"405A< <' 2' C < ' > 2 ; 5@9 A 0 " 5@9<2' <B< : ": 2 -)
!" : ""- 4 " K U)
$; " :"&) (J00<' B<' 42@<' 5 : 5 <<4<2 ' $4 5) KW K)
c : 4 "< 0? <G <=& 9<) 0<2B 2) 8 4?& K KK)
B @424@9 &) 24A4 "<' <"' 0<5' " <5' 0 A <2 2<5) $4 5) K WW&
B &) <' / 0 : 40A 0 " >' 4A 0< 25) : 2 @9) K WW)
5<& 6)) 2 -0 59' 5" @40 <G <=) 0) G ;) (2B 2) K W)
!455%?& 4 N : 5 B<) 4A 0< 2' ' <" 04' 2B4" 2' B<' 04' BA2C0 N : <' -<2" 2<)
$4 5) K W)
6) %4 ' 2' 5- : 5<& ' "9<' ' 4 : B5' '" 9<' <:" 40 '04-5) (2B 2) K)
9<' <2 :5 42B' 5A 5 " 2' ' ' <2@9' G< 2 ; <2"' 40" ; <) K K)
c) <1 'Q 6 %%' ' " ', ///

' ' 94""<0' ! : G<2 5E& ' ! 'Q ='' ' $45N : J5' < ; 95& '
Q =' ' " '/#' .

' K YE)

' 5 ; C< -&) ') ' 4' / - ; & K Y KZ) A<294-<2) K WZ&
4<B< & 6) G 2) 42 ; 4 95' T ! ' -' $ 0 " 5><' 5" <& K Y W) ' G 05) A<2m
94-<2) K Z 8)
: C 2& & ! " : B '" 0' ; ; 4 >5 " 5" <& K Y KZ) A<294-<2) K W)

* # "

42@ & F? ! 0 4' B : 42"<' K' @@ : A4a 2<' 2 -0<5<) $40< ;) KW)
: 2C : ?& ! ') ' 4 4" G<' ' 0 "4 ?' 4254@" 25' 2' "9<' <B "< 42<42&
K U K) (2B 2) K UK)

NO $ ($P 9

P - 7

"59 2 DA<B" 258 @ ; A 0<B 2 "9< 2"<00 -<2@< 42@9 "9< c24 "< ; 45"< J5 <A" (2B 2 K Z)
; B 240B 4 0 C5< G4" 25 2 4G40 4 5 (2B 2 K ZY)
: ; <?% 2 :"<5 4 : " 4 " 40))) 2 (B 4 ; C < (2B 2 K W
0 4 :"@ @ 2 ; ?F ' <@45"0< <@ 00<@" 25 G<2"5 B : 2 -"9<045" %4))) ?
4 ! 4 0)))@400<B)))64@> 45"? ' 4@< (2B 2 2)B)
S 8045 (<:" $ 5" 8 <@ B "9< ?40 4 2< ' @<5 G 05 (2B 2 K ZU)
!"4"< '@< "4 2 ; ; 40 $ 4@" @<5 A <G4 0 2 -" : ")]5 4G? (2B 2 K
%00 4 ; 58 5" ?" '"9< (G< A 0 $ G4"<<>5 (2B 2 K WY)

(" (#)

" ! ?5"< ; " 4G40 4 @" @5)0 2 2)E (2B 2 KYWY)
9=4 @>% 6 5" ?" 4 2< @9 "<@" : < 'G 05 (2B 2 K)
< @>% < ; 5 '"9< 5<42B $ - <55 '"9< ?40 4G? (2B 2 K
'40@ 2< % % 2 2 G< 540 @" 24 ?" '"9< 4 2< (2B 2 KY W)
(<G< % 9< # ; -" ! <4 @< J5 ! 9<<" 2@9 (2B 2 K)
! ; ?"9% %)% B ; 40 9< ! 4 0 J5 % B C >)))B -<5" 24 :" @40 "< ; 5)
<G 5<B C?" @< B ; 40 ! " <0@9< (2B 2 K Y)
!"<<0% 9< ! 9 A 45"< J5 55 5"42" (2B 2 KYWW
% 004 : ; <a% 6 $ $ @" :44 <B< 4 2< B <B $4 5 K K)

G ;)

>

7 8 9 ! : : ; 9 < =

$!

" 59 ' < - 2 @ < <@ B5
' 42@<8 5) Y YZ $ =55 4 -) pY Y : 5" 4 5) YW Z : 55 4 5)
Y W ! 8<B<2 5) U 8 K)
/ <-54 @9 G B<5 - 55<2 < < 405"4C<5) < 0 2)
<9< ; <5 !"45"54 @9 G) < 0 2)
!"44"54 <9 G /) :) >) 5"< < @9 5@0 <5) <224)
' '"9< ' <2@9 @9 G<5 ! Q =@ 6

) !&

<<) 5"< < @9 42B : !5042B 4 K Z U) R 9 : 5"< < @9 5@9< 7
0<5@9 <9"< (U)E
4G :"& 4 8@94 (' 4AA "B<5 A< 4" 25B : f@ A5&K Y) B) <2< 40 4G :")E
$4 5) K W)
' <B @9 & / B : - G 2 : ""< ; C< -) $ 0"" 5@9< 92B ; "4 5@9< <5A<2B<2a
; " / 4 5< 4A 0< 2) eB) !@90 55C< -<)E ! " : ""-4 ") K W)
I (; C4 B& 6) %) 4"< 4 : @ A : 5< G J9 5" < B<5 422B<5 K U Y
' 42> ") K)
$4-<"& ! " ; <5A 2B<2@<& KYWZ K Y) %' $4-<" 0 8 A 8)E ' G905)
82B 2) K W)
5<& 6)) B)E <5A4"@9<5 <04" 2 - " "9< "9 B @ 40 " 2& ; "9< ' < - 2
@< @ <5A 2B<2@<) ? 5" @40 ! @ <"?)E KW Z)
M' @ 00<@" 25 '" <4" <5 C? < 0< @N& 4 B<2&42B 4 "<25 4A 0< 2J5 <
5A 2B<2@< -<2< 40&42B = "9 (: 5 24A4 "<E "" < ; 5 42B <5A 2B<2@<
<4 : 94 24 5& 6 5<A9 24A4 "<& 45"0< <4 - 9& 4G :"& <2"a& : 4"& 4 B<2C< -& 7
<55<0 B<& 400<? 42B "9< 4 <5 <2"a "9< < ; 4 25 ; A"<B4 "9<
< 0<D 25 (: 5 24A4 "< \$ 4"@9<G5> J5 8 < 4" 25& 42B "9< % 2a
@9 G<5 : 55 4E 0<D42B< 42B 4A 0< 2 4" 5@9< E ' 42@< 42B \$: 55 4
4 00< : E ' <B) % 00 4 ; & c : <<2 (: 54& 42B 0<D42B< K ; 00< : E& !
Q =

) (' % / !))

0 ; C< "& \$)) <" 0 2& 6) (4 4 ; A4 - 2< B< K <2 00< ; 4 - 2<) ' <2@9
!"4 5" ?)E Z G 05) \$4 5) KW)
<@>& /) ^ : < 455 : 2 - 5 - <5@9 @9"< B<5 9< 2C : 2B<5) 4 2a) K W))

< " 4-< a : ' <5@9 @9"< B<5 / <-<5 G 2 K ' : 2B K Y 2' <22 -5<2 5 2"< <5")
<504 : K)
2240 e ; (4 B A0 ; 4" < A : 55 <22< B<A 05 04' A4 D B< $ <5C : - $4 5 K
2240 <2< 40 (4 ; 4A <: G < BJ 24
$4 5 KW Z)
42C : ?8 ! ' 0 "4 ?" 4254@" 25 2' "9< <B "< 42<42 K U K ! ; <
A4554-<5 2' "9< - <4" =4 ' = "9 ' 42@<)
04 : 5<= "a G 2) 4@9 @9"<2 : C< ' $ <: 55<2 2 5< 2< ' - 55<2 / 4"45" A9<)
/ <-5-<5@9 @9"0 @9< 2a<05@9 "<2) $4 " K)
: 2@>< 4D C942B0 : 2-<2 4 : 5 B< ' 2< : < <2 <5@9 @9"<) (< Aa - K Y
' : @4 "$ 4 ; A4-2< B< $; 55< K ' G 05 $4 5 K Y W)
' 4 ; A4-2< B< $ 0 -2< K Y ' G 05 $4 5 K)
$4 5< 0 2<0 ; 4 40-4 : 5"< 0 "a (2B 2 KW U)
400 K K (4 ; B< 4284 5< <2 < ; 4-2<) $4 5 K W)
0"a G 2 B< 55C4@9 : 2B 6<24 < 0 2) K)
BA 9< 0<D42B< ' G 2) ' / <-' G 2 K ' : 2B K Y U G 05 < 0 2) K U
*= C<@> G 2) < ' / <-' G 2 K ' : 2B K Y Z G 05 < 0 2) K WW
I 40) $ <@ 5 B< 04 4 ; A4-2< B< K U <2 00< ; 4-A < <" <2 "40 <) : 55<05
K)
>94 0 G5> 42 0<G5> <2< 40) <04" 2 B< 04 @4 ; A4-2< B< K U " 4B A4 '
(4 5@9> 2<E) ' $4 5 K Z)
9< 5<@ 2B =4 ' "9<Q ; A< 0<D42B< ' 4-4 25" 4A 0< 2 2 K Y
: 55 42E ! " $<"< 5C : - K Z)
42 6) (< ! 0B4" ; A< 40) ' G 05 $4 5 KW Z)
I$<" " <2< 40) 5" < B<5 4 ; A4-A <5 B< J ; A< <: ' 4A 0< 2 <2 K U Y)
< ; 40 B : <A " -82B 40 B< 04 : < <) 0) G :) $4 5 K Z)
$<" <$) (4A 0< 2J5 4 ; A4 -2 2 $ 042B) K Y (2B 2) KW K)
5" =%) < ' / <-' G 2 K U 2 <: "5@9042B 2B "40 <2) ' 4 : <2 <0B) K U
!<9B2940 /) ' < 9< ' G 2) < ' / <-' G 2 K U 2 <: "5@9042B) <224) K Y
0 92422 : 55 5@9 A <: 55 5@9< $ 0 " > ; "< ' 0<D42B< ' : 2B ' <B @9 % 09<0 ; '
C 5 K (< Aa - K WW)
% 05 2 ! ')) < ; 4 >5 2' "9< @94 4@"< ' 42B @ ; A 5 " 2 ' "9< : 55 42
4 ; <5 42B 4 5><"@9 '"9< 4 ; A4 -2 2 $ 042B) (2B 2) K K)
' ' -<2< 40 = >5 2 : A< C? 0 5 2 (< <CG < / 4 : 50< 9@><2 ! <0
2 ' 42@< C? <4 : G4 5 -2 2 : -< 5 9 < 5 2 < ; 42? C? ' 59< $<
"9<5 4 ; C4 : B ! < G < <5 < "5@9><2 : 5" 4 C? << % < "9< ; < 2
: 55 4 C? < ; 94 B ! @9 < ; 422 2 4A 0< 2 C? N : <00< ' : 2 < 6 ; 2
(42 <? 5<< 42B40 # @> G 2 %4 "<2C : - < "@) 2 0 "4 ? 5" ? C?
: ; 45 5<< ! ' Q =

) $ (' % / !)

! 2 %" 2 ' P' / 2 &' ' "% !

: - : 5" $ 2a 2 $ <: 55<2) / <-5-<5@9 @9"0 @9< 4@90455<) 2a<05@9 "<2)
$ ')
< 0 2) K)
?<2) G 2 22< : 2-<2 4 : 5 B< ; ' (<C<2)B<5 <2< 405) B) ') AA 0B)
' G 05) (< Aa - K W W)
; <4 : 4 2) ! : G<2 5 B<5 - : < <5 BJ < ; 4-2<) $4 5) KW)
'Ba<254@ : < B<) 6 : 240 B2 @4 ; A B< 2" < : 0 <" B<5 @4 ; A4-2<5 BJ < ; 4-2<
: 5N : J<2 K Y) $4 5) K)
4-< ; 0))) G 2) < 2 2"9< 0 42 B< ' $ 0 " >) ' G 05) ! " : "" -4 " K
455<2C4@9 0 2<0 9 5" 42 G 2) < ; <2< <"@) ; 5"< B4 ;) K W)
$< @?4 2 $) ') @9 ; 8<2 <2 @9< ' B< 04 42B< ; Z<) 6 : 240 KYWW K WE)
$4 5) KW Z

!) X X)

)

$* $

s s

4)' ' % / !)

0" ()

0 420"&)' ' $ 0 " N : < 8 "50<' B<' 4A 2' K E)' $4 5)' & KW Z)'
$5 B<G4 ; 58' H (4'$ 0 " N : <' @ 0 2 40<' B ' / 4A 082' 080)' 2' <G : <' B<5' c : <5" 25'
R'9 5" N : <5)' 0)' DG"2)E $4 5)' KW K)'
22 - 4 : B& ()' e<5' ` 4" 4>' <2' : 55 <' <'" 0<5' : 55<5'<2' ' 42@<)' $4 5)' K)'
$?8 ; <&)' 0 ' <G ; 8" ' B<45' : 2B< ' 0< ; 2B< ')' 2' : 55 42)E ! " $<"< 5m
C : -)' K U)
5<8 6)' 6 ' / 4A 0<@ @ ! " : B <5)' X<2B 2)' KW Z)

' ' -<2< 40 = >5 2' : A<42' 5" ?' C?' (< <CG <& 2@><2& 42B' ! <0F
2' "" 4' C?' << & %< "9< ; < E& : 55 4' < ; 94 B & 4"@9<G5> E& < ; 42?
' 59< & B : 55< & 42 C4 : B& < 5@9><E& "40?' ""4& : "9E& ! A4 2' 4 : ; -4 "<2EF
2' 4A 0< 2' 42B' 9 5' C "9 5' : ' " # 455 2EF 2' 4A 0< 2' 42B' 0<D42B< '
4" 5@9< & 42B40EF 2' 0<D42B< ' ' -B42 G "@9& 0 G 2<& 6 ?2<G 00<EF '
+ 'Q 8 % =

24A5 : @)' % 225)

4 5 &)' 6)' (< 942@<0 < ' "2 42"!)' 2' (J42@ <22<' <'" 04' 2< : G<00<' : 55 <)'
0)' 0)E ! " $<"< 5C : -)' K YY)
5@9< &)' ; 9<' ""2B' 4A 0< 2)' 2B' <B)' ' 4 : <2 <0B)' KW)'
2 : -4 : B& >' < 24B<""<& 4A 2& <'" 0<5' : C 25)' $4 5)' KW K)
! >0 =< & !)' 2" <G""<' B<' 4A 0B 2' o' <'" B ' <"9<)' 2B' <B)' (00<)' K U)'
<55 < & 6)' (< <2< 40 <@4<2' 4 : D' 2B<5)' 2' < : <' 9 5" N : <)' 0)' DG)E $4 5)'
K K)

' 'C - 4A9 @40 = >5 ' <554?5 2' 400<? 42B' $ @9 "E& 422 2-' ! "4A0<" 2&
< ; A< 0<?E& 4 <'" ; : E& 4 B<2C< -' / 0 5<E& ' ! 'Q =

! A5@ 42' % / 5)

""4 B' B<5' ' "<5&)' (<5' A 8 ; 2" : <5' B ' J 2" <G : <' BJ 2 ")' 2' <G : <'
BJ9 5" <' B A0 ; 4" N : <)' 0)' G)E' $4 5)' K W)
4 : 0"&)' (4' N : <5" 2' BJ <2'" <2' K Y)' 2' <G : <' BJ9 5C <' B A0 ; 4" N : <)'
) 05)' D G& X)E $4 5)' KW K)
4 B4 : <&)' B<' ; "<E)' 55 2' B : ' <2B 40)')' "2"<' B<' 4 B42<' <2' $< 5<'
5 : 50<' A < ; < ' ; A <)' $4 5)' K U)
4 ; ""42& $)' 24A4 "<' <'" 04' BA : C0 N : <' B<' (: @N : <! : ' 0<' ?4 : ; <' BJ " : <)'
$4 5)' K W)
B <424@9 &)' 2584H8' "0<5' 0 <5' 0 c ; : <5' KYWY K K E)' $4 5)' K W)')

J')' ' (' ''' $! !

! - :' : D22)

2B"&)')' < 5" B<g ^< "')' 0)' 2)' Z' G 05)' 2B 2)' K)
22< : 2 -<2' 4 : 5 B< ; ' 4 : 55< <2' (<C<2)' (< Aa -)' K Z)'
< -& ! 2' G 2)' (: 5<& / B2 - 2' G 2' $ <: 55<2)' < 0 2)' K KZ)
< ; 94 B &)' ')' C<' B <' < 5" "<2' ; 2B54"a<' B< ' 5@ _B 2' 2' < 2< ; ' ? ; 245 : ;)'
< 0 2)' K K)

<2& $)' G 2)' :" C - 4A9 @)' / C2 -5C< -F K ZK)
@><& 6)' G 2)' / <-50<C<2)' < 0 2& K)
?<2&)' G 2)' 22< 22-<2' 4:5' B<;' 0 @C<2' B<5' <2< 40 ' <0B ; 4 5@94005')' G 2'
?<2)' 0)' a)' 'G 05& (<Aa -)' K W W)
94 ; 55 &)' G 2)' (<C<2' 22B' < <& 'G 05)' < 0 2)' K W)
04:5<= 0a&)' G 2)' 4@9 @9"<:' C<' $ <:55<2' 2' 5< 2<' - 55<2' / 4"45" AC<)'
< 0 2)' K W)
<' !22<' B<5' 0><5' 2' B<' ^ "' B22"5@9<2' <2B5& K U K)' 2 2)E' < 0 2)'
K Z)
C24&)' 4 'G 2)' :5' !@9 25' $4A j <2)' U G 05)' 400<' 42B' < 0 2)' K YU)'
' @9"<& 6)')' <B<2' 42' B <' B<:"5@9<' 4" 2' K Y E)' < 0 2)' K)
:;C 0B"& %)' G 2)' <54 ; <0"<' !@9" "<2& 9< 425-)' G 2 B<' > 2)' A <:55)' >4B<;' <'
B<' % 55)' 05)' D& 4)' $ 0 " 5@9<' <2>5@9 "<2)E' < 0 2)' KW)'
;;< ;422&)' < ; 4C 0<2)' 'G 05)' 4 ; C2 -)' K Z)
64@ C5& ')' $< 5 240<2)' (<Aa -)' K Z)
(;C4 B& 6)' %)' 4"B 4:D' A :' 5< G 'U J9 5" <' B<5' 422<<5' K U& K '<" K Y)
' 42> "' 42B' (< a -)' K)'
4 = "a& ')')' G 2& :5' B<;' 4@90455' G 2)' 'G 05)' < 0 2)' K U)
455<2C4@9&)' G 2)' <2>=: B+>< " 0'a2' <5@9 @9" 'B<5' < 1005' B<5' A <:55 5@9;4'
!"44"<5' 5<"' B<;' 649 <' KYWZ)' ' 05)' (<Aa -' 42B' ;5"< B4;)' K W)
0 2-& /)' ' < 9< 'G 2)' :5' ;<2<2' (<C<2)' '" ;)' 2' K G (' < 0 2)' K U('
2-0& " 42504" 2)' (2B 2)' K U)E
:00<& '& G 2& 22< :2-<2' 4:5' B<2' / <-5a< "<2' K K E)' :25= @>)' K UK)'
<C:9 &)')' (<C<2824@9 @9"<2' C<)' 'G 05)' 4 ; C: -)' K W)
- a& /)' G 2)' (<C<2' 22B' < =<@95<0)'
4:;<& ')' G 2)' (<C<25< 22<;2-<2':2B' < =<B95<(' 'G 05)' (<Aa -)' K K)'
!@90<5<&)' 22< :2-<2' 42' %)' G 2' :;C 0B"' 0)')' !":""-4 "' K ZU)'
!@9 A<294:<& 6 94224)' 6:-<2B0<C<2' :2B' %4:B<C 0B<')' 'G 05)' :25= @>)'
K W)
!"4-0 05"<2& ;<B<)' (J 0<;4-2<)' 'G 05)' $4 5)' K K)
!"< <25&)' %45' @9' <0<C"<)' K 'G 05)' <504:)' K Z Z)
55&)' !)' &)' 2' G 2E)' <:::2B5<@9a -' 649 <' 4;' A <:55 5@9<2' <)'
Z"9' <B)' (<Aa -)' K Y)

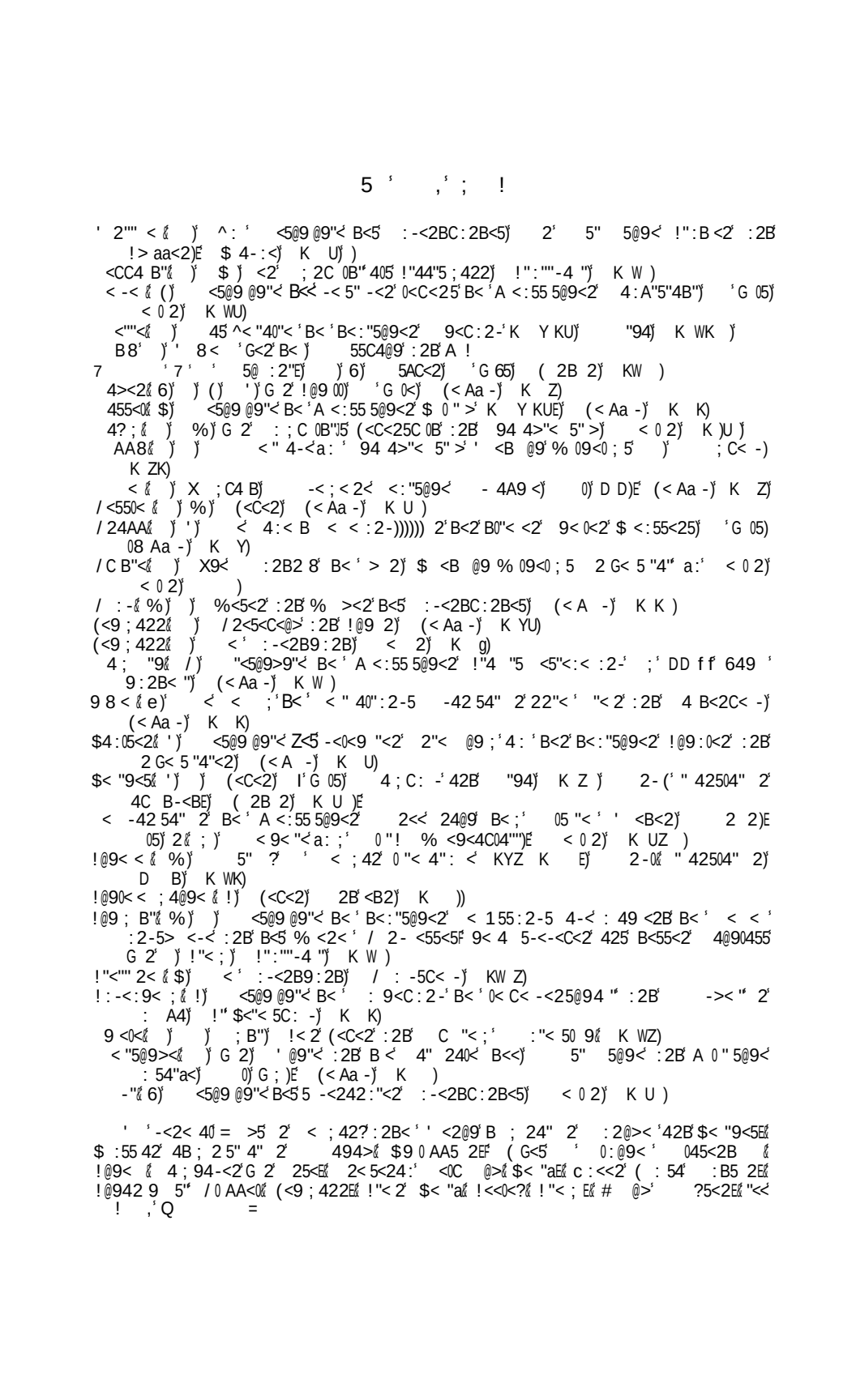
' '"9<' <; 5' ' 4 B<2C<-'42B' 4 294-<2'G 2' 25<& 5<<' ! 'Q =

%

!a5@9&)' ')' G 2' !@9 005' ^:-':2B' B)' (<Aa -)')
S ' <" -<' a:' <5@C 9"<' B<5' 5 -< 422"<2' :-<2BC:2B5)' 4;C: -)' K U)
455<= "a&)' ')' G 2)' 6E<' / :;4 >' 42B<2C:-' ;' ^:54 ;;<2942-' ;'" B<;'
!@9 @>540<' B<5' <542:2"5"44"<5' $ <:55<25' K E& 'G 04' (<Aa -)' K UK)'
?<2&)' G 2)' <" 4-<'a:' /<22"a 55' B<5' <2< 405' !@94;9 5")' < 0 2)' K)'
4G4 -24<&)' (4' ;4" 2' B<' 04' $:55<' < 2"<;A 4 2<)' (<5' - 2<5' K E)'
$< 5)' K WK)
0"9<?& %)' (<C<2' !@90<<;4@9< 5)' < 0 2)' K Y)
<"< @& c& ^:' <5@C @9"<' B<' !"<:< < ;' 2' $ <:55<2' K K E)' < 0 2)
K YU)
:2@>< &)' :5' B<' ^< '" ' <B @95' B<5' 55<2' :2B' ' <B @9' % 09<0;5')'
(ZA8)& K Y)
' $ <:55<2' :2B' B <' 4 -<;<2< %@9 A 0 @9'" ;' 649 <' K W)' 2' 5" 5@9<
&' ^< "5@9 ")E' < 0 2& K K)
2 :&)')' 4 2E' 5' 4284 5<"' $:55<' K E)' $4 5)' K Y)
' @9"<& 6)')' 6)')' @9"<5' (<C<":' 'G 05& 2B' <B)' (<Aa -)' K)
' ;<?)' 6<42' $4:0 @9"<)

)' D "

5 , ;



?

7 8 9 ! > ? ' : 6 0

' % ' ' ' K W)

)' !)

' 5?5"< ; 4" @ 42B' <D94 : 5" G< A : C0 @4" 2' ' "9< B @ : "2<2"j' <04" 2 -' " ' "9< A 0 " @40 9 5" ?' ' "9< ?<4 ' K W 945' 45' ?<'' C<<2' ; 4B<)' 9 5' 5"4"< ; <2'' 9 0B5' - B' ' 40' "9< ! "4"<5' @ 2@< 2<B)' G<2' (< <CG <J5' @ ; A <9<25 G< = >% Q + ' ' ! ' ' /Ⅱ 9 ' ! ! ' ' ! ' ' /Ⅱ # 5' 2' "9 5' <5A<@'' 2@ ; A0<"<)' 9< : 5" 42' 4 @9 G<5' 94G< C<<2' : 5<B' C?' << % ' 9 ' 45' <55<2" 405' <' @ 2@< 2<B% 2' 5' e ! ' A ' ' # K K K % = 9 @9' " <4"5' G< ?' "9 : - 90?' ' "9< A 0 @?' ' "9< 2 5"< ' : 2'' ! "4B 2)' %< "9< ; < J5' ' ' ! ' >/ ! ' ' ! ' A ' ' ! ' A ! # G (' % 5' C45<B' 2)' B @ : ; <2"4 ?' <G B<2@<)

9< 4" 240' @9 G<5' ' ' 42@<' 5" 00' @ 2"4 2' ; : @9' : 2A : C0 59<B' ; 4"< 40' <04" 2 -' " ' K W F' C : '' "9< ; 5'' ; A "42'' A4 '' 945' C<<2' A : C0 59<B' 2' "9< " G ! ! ' ' Q ']%' 2' "9< ' ' 2 # 2' "9< 1 ' ! ' ' \ !# 42B' 2' "9< 6 ! ' ' " !=' 9< 54 ; < ; 4?' C< 54 B' ' "9< 2 - 0 59' 4 @9 G<5% 45' "9< A 2@ A40' ; 4""< ' 5' " ' C< : 2B' 2' [< -< 422 2 - J5' 0 ! @ 40' <5A 2B<2@<%\' 42B' "9< [45"0< <4 - 9' < ; 5)\

5' <-4 B5' "9< ; 0 "4 ?' <G<2"5' ' K W% "9< Q ' Q ' 2' <224' @ 2"4 25' 5" <5' ' G40 : 4C0< ; 4"< 40% = 9 @9' 945' C<<2' <D"<25 G<0?' : 5<B' C?' 4 2' GN2' 2B< <-<05"< 2% 2' 9 5' # K W% 405 ' 2' 9 5' # = 9 @9' 5' 5" 00' ' A @<55' ' A : C0 @4" 2)' 2' 8 <' "9< ' 942B% "9<5< 4 @9 G<5' @ 2"4 2' ; 42?' B @ : m ; <2"5% = 9 @9% C< 2 -' [5<@ <"%\' ; 4?' 2 '" C< A : C0 59<B' 5 ' "94"% 45' ?<"% = <' @422 '" C< 54 B' " ' A 55<55' 42' 4C5 0 : "<0?' @ ; A0<"< 9 5" ?' ' K W% = "" ' ; ' "9< : 5" 42' A 2'' 'G <= % 42B' C45<B' : A 2' e ! 8' <A "5)

9< ' <2@9' <2< 40' ! "4 % 2' "9< "9< ' 942B% 5' 5 : @@<55 : 00?' <2 - 4 - <B' 2' : " 0 5 2 -' "9< 4 @9 G<5' ' "9< 3 P ' ' ' # ' "9< 9 5" ?' ' "9< %4 ' ' K W% 2' 42' 4B ; 4C0< = > C?' 0)' ! 4 8 % Q ! ' ' K W <*' ! ' ' ! ' # ' = 9 @9' "9 <<' G 05)' 94G< 40 <4B?' 4AA<4 <B% '" 5' C45<B' <D@0 : 5 G<0?' 2' B @ : ; <2"5)

9< < ; 4 2' "9< ! "4"< 4 @9 G<5' ' <5B<2% : 2 @9% ! " : ""8 "% / 4 05 : 9<% 42B' 4 ; 5"4B"% = 9 @9' @ 2"4 2' G4 : 5' : 2A : C0 59<B' @ 40' <A "5' <04" 2 -' " ' "9< A4 '' " B@<2' 2' " < = 4 0C?' " < 2 <B< 4" 2' '"9< 9 2<)

9< B @ : ; <2"5' <04" 2 -' " ' "9< e2 - 0 59' DA<B " 2' " ' % 40@9< <2' 94G< C<<2' A : C0 59<B' 2' 9K !' ' 9 # 9 ! G # ' ' ! ' + ' K' ++ ' ' 9 # R ! ! G ' K' K' ' ' ! ' ! ' $4 5)' K K)

<)')) x)' @)' D2) "!

?>

6

4 $ # % / !)

2& ' " ! $ / ( )

> O

) B "% OB # <<80>Z ; << A 0< 2(422 2-(45"0< <4-9(""< 2 @9(RH2"-<045(42B "9< 4245 <2"a8 << <2< 48 =# "9< < ; 5 94 ; A4-27 42B !4G4 ?(Q =" /# .#

42@9 (' < 9< G 2(9) 1) '<0B ; 4 5@94000<2"242") <224(K UY)
< "< B+ : 2-B<5 @><2> A << 2 <-<25C : -K W) $ 4- :<) K U)
44"<0042<(6 : 240 B: 2"4 <@940) $4 5) K U) 0)) 2-0 59 " 42504" 2)
(2B 2) K W)
<?B<(B<) < ' <0Ba 8B<59< a -0) C 4 : 25<9=< - 5 9<2 / A5K W) < 0 2)
K KW)
6 9422(a9< a -G 2 5"< <@9) ; ' <0Ba : -<K W) 4a) K W)
4 0(a9< a -' G 2 <5"< < <9) <04a 2 G 2 B< ! @904@9" G 2 5A< ; 4 : B< ; 0 4 @9 <0B<) <224) K W)
(4 <?(4 2) < ; 8 2-0 59E) (2B 2) K K) 4 2 () =45 ! : -< 2 <2< 40 2 "9< ' <2@9 4 ; ?)E
(< <: 2<(B ; <5 B: -B2B 4(' $4 5) K WU)
(<2@<5(B ; <5 B: -<2< 40) $: C0 59<B 2 0 4 2<" 9 5" N2<' <" 0 ""< 4 <' B: @ ; "<' '0 : ?)\E $4 5) KW)
$<0<"(6) 6)) < ; <5 B< 9" - : < <' B< K W) Z G 0<) $4 5) K Z)
$<00<A "($)(@ ; "< B<) ! : G<2 5 ; 0 "4 <5 <" 2" ; <5) G 05) $4 5) K UY)
% ; A <2(' < 9< G 2(2<' <2>5@9 " 4 : 5 B< ; 649 <' K W) ""< 0 : 2 -<2 B<5 >) >) <-5 @9 !)E ! < <5 D (G 0) 2) <224) KW Z)

' "9< = " 2-5 @9B : >< 94 0<5(42B "9< < ; 5 42B <5A 2B<2@<' <4 : 94 ; 4 5(4 : "((422<5(4@B 2 B(4 C "(455<24(4AA(! Q =

(' (% / !)

E

' : 2 < ( ) <5"< < <9 24@9 B< ; ' ' <B<2 G 2 % <2) ; ; 4) K)
; 4? ( ) G 2) / 4 5< ' ' 42a : 2B <""< ; @9((< Aa -(K Z)
42B40( ) (4 ' 42@<' <" 04 : 55"<' H<2B42" 04 @4 ; A4-2<' B5 K W) 2240<5 B<
J @ 0<' B<5 ! @ <2@<5 A 0 " N : <5(K W)E

' = >5 2 : A<42 5" ?(B : 2-' "9 5 A< B(C? 0 5 2(4A< - : <((< <CG <(2@><2(5<F 2 ' 42@<' C? -2 2(4 2<(0 < 5F 2 : 5" 4 C? << (%< "9< ; < F 2 "8 ; 42? 42B $: 84 C? $< "a 42B ! <<0<?F 0 G<5 ' 4m A 0< 2 C? ' : 2 < ((42 <?(5<F 2 4A 0< 2 42B 0<D42B< (C? 42B40F 42B @ 00<@" 25 ' <4" <5 C? 4 B<2(<"@)(' ! ' Q =

UE' 0 "#)

2B< / <-<05"< 2(' < 9< G 2) <-<25C : -' K WE) < 0 2) KW)
' !@9) < 0 2) KW)

< ; <2& %)' G 2)' <' 4-<' G 2' <-<25C2D-)' < 0 2)' K WK)'
' <?"4- (2-9 G<2& ' < 9< ' G 2)' 4A 0< 2 5@9<' 2 " 4" G<& K W : 2B' K KZ)'
< 0 2)' K W)
< =40B& ')' G 2)' < ' ' <0Ba : -' G 2' K W)' <224)' K Z)' !<A4 4"49B : @>' 4 : 5
B< ' 5"< < @9 5@9<2' ; 0 " 5@9<2' ^< "5<9 & K Z)E
0< &)' < ' ' <0Ba : -' G 2' K W 2' <: "5@9042B' : 2B' ? 0)' : -5C : -)' K U)'
; 4? &)' G 2)' 45' << ' G 2' 22< 5"< @9' : 2"< ' B<9] < <90<2' B<5' a '
C< a -5' 6 9422' ; ' / <-<' K W)' (< Aa -)' K Z)
(4C B<& ' ()' 6)& ; "<' B<)' $ 8 5' 9 5" 7 : <' B '04' - : < <' B<' K W)' $4 5)' K W)'
(4 5@9&)' G 2)' 45' / <-5 49 ' K W)' / B"a5@9<2C B4)' K WW)
4?< 9 < & GR ;)' <5"< < @95' / <-' ; '" 4A 0< 2' K& <224)' KW U)
<2-<&)' <' ! @904@9'" G 2' 5A< ; ' 4 ; ' K)' : 2B')' 4 ' K W)' < 0 2)' KW)'
0"><& 4 'G 2)' 0 "> 5@9<' %< ><)' (' 2& A4 '")' < 0 2)' K WW)'
< ; <?<)' <0B<2a : -' B<5' < a -5' G 2' 4 : 25@9 =< -' K W)' 400<)' K UW)
!45>&)')' ()' 4 ; A4-2<' B<' K W)' ' <2@9' 5" ?)E ' GRB5)' $4 5F
K WW KW)
!@92< B4= 2B& ')' 6)')' (4' - ; < <' B<' K' : "4 @9<' @ 2" 4' 04' ' ; @<' <2' K W)
' (<C<2' B<5' a9< a -5' 6 9422' G 2 <5"< < @9F ; "C<5 2B< < < @>5 @9" -
: 2-' B< ' ' <0Ba -<' B <5<5' $ 2a<2' 2' K & JU& JW& B JKU)' !@94 9425<2)' K ZW)'
! ; <>40&)' <' ! @904@9'" C< ' 5A< ; ' : 2B' 550 2-)' <224)' K WW)
!" C0&)' 5A< 2' : 2B' %4- 4 ;)' <224)' K WY)
!" : ""< 9< ; & 4 2' 2)' < ' / <-' G '"' K W)' <224)' K WK)
%<0B<2& ()' G 2)' < ' / <-' G 2' K W)' <224)' K Y)
^= <B 2<@> ! : B<29 5"&)' G 2)' a9< a -' 6 9422' ; ' ' <0Ba : -<' K W)' 4a)' K W)
' ' "9<' = >5' '6 ; 2 '42B' # @>' G 2' %4 "<2C ; -' 2' 4A 0< 2' 45' @ ; ; 42B< &
42B' ' 2-<0?' 2' @9B : ><' 94 0<5& ! 'Q =

@)' D2)

j

Q 4] =)

!

0-042B8] 0<""< 5 2 "9< B< ; 5" ?: A< (2B 2) K Z
5"<B] 9< 2"<5"% "9 ' 42@<) (2B 2) K W)
(<""< 5 A ; 0C 2 " 4 <2B 2 "9< 2"02<2"9 6 K K) 2 2)E G"B5)
(2B 2) K K)
5@ <% %5 25 B< 4" 25 2 "9< 4:5<5% C <@"5% 42B 25<N:<2@<5 "9<
A <5<2" %4)))) (2B 2) K K)

! " B !

; BZ)) 22< :2-<2 4:5 B< ; :55< <2 (<C 2) B <B) &(< Aa -) K Z)
4 =%] 0 <' 42B <5A 2B<2@<' A ' B ; 40 ! ' %) ! B2<? ! ; "9) G 05)
(2B 2) K Z)
94 ; 55 %) G 2) (<C<"" :2B < 5) G 05) < 0 2) K W&
>< 6) %l) <5A 2B<2@<' 42B 4 <5% K W % B "<B C? () 6) 6<22 " -5)
8 5) (" ; B 2) K Z)
0< 5%) < 2<%42B< :2-<2 B: @9 5 (<C<2) Z G 05) (< Aa -) K U)
2:2< ; 492% /) < ; 4C 0 <2) G 05% 4 ; C: -) K Z) H
64@ C5% ') $< 5 240 <2) (< Aa -) K Z)
4 " 2% ! ') ?4 ; % B ; 40 (<""< 5 42B $4A< 5) 4G? <@ B5 ! @ <"?)E
G 04' (2B 2) K W KW K)
4A 0< 2 % <5A 28 ; @<' 2BB "<' B % 4G<@ 4:98@ : " K WE% A:C0 59<B C?
) 42B40 2 "9< <G:< 0<:<% K WU)
$<4 @<% ' ') < ; 5 42B <5A 2B<2@<' 4 N:<55 %<00<50<?) G 05'
(2B 2) K Z)
5<% -9" 2)) 4 <5 42B <5A 2B<2@<') G 05) (2B 2) K)
55% ! '] < ; 5 42B <5A 2B<2<' B ; 8 (B B<' !4: ; 4 <a) G 04'
(2B 2) K)
!"4<0 05"8% 4B4 ; <' B<) D 22B<5 BJ D 0) $4 5) K K) I <=' <B) ;'
"9< - 240 !) B) C? $) 4:" <) $4 5) KW Z)_
!"< <25% % 45 @9' < 0<C"<) K 'G 05) <504:) K Z Z)

' 4A 0< 2J5 b A 2 25\' $<0<"' B<' 04' (a< <E 4A 0< 2J5 @ <5A 2B<2@<'
< ; 8 R <5A 2B<2@<' <"@)% ' < ; 4B ""<% 45 < <4-9% 4G :"% <2"a% 40 ; <5m
C: ?% 8825> % 4 294-<2 G 2 25<% << ! 'Q =' ' ' < ; 5 '
: <22<% <2% :G 4 B% $4 ! N: < % 'Q =' " '/# .
< ' "9< '@ 2"< ; A 4 ?' 4:"9 " <5 5<< C<0 =% :2B< 'b ! A<@ 40 % >5)\

(4 ; 4'

!

:00< % ' :5 5": ; G 00< '^< ") 4 C: -) K W)
5<% 6)) 4A 0< 2 @ ! ": B <5) (; 82) KW Z)
' ' -<2< 40 = >5% 2 "9< 9 5" ? ' : A< 42B "9< 0 2 <5 << <2% $ 55<0"%
! <0E% 2-042B 4 " 2<4:E% < ; 42? 4 ; C4:BE% $:55 4 : 2@>< E% :55 4
< ; 94 B E% <0- : ; ' (42a4@B< (4C <E% 5<< ! 'Q =' 6 ' ' <G:<
B0 5" <' B A0 ; 4" N:<) $4 5% G) B)

Q

4 B?@<%) 0 < ; ' "9< 2)) /) 0A9 25" 2<% /))% 5@ :2'' / <"9)
8 (2B@ ;) K)
= 55%) 9<' A:C0 @ 42B' A G4"<' 0 <' ' (B' 942@<00 ' 0B 2) 'G 05) B' <B)
(A2B 2) K Z)
' ' (G<5 ' 0<D42B< ' % 4G :"% 4 <"% 5<< ! 'Q =

) D :)

(<G455<: &e)' 60 5" <'B<5' 0455<5' :G < <5'<'"B<' J02B:5" <'<2' !0 42@<'B<'KY W4'
2 5' : 5)' 'G 05)' $4 5)' K Y)' <='<B2)' @ <@"<BE)' 0)')' $4 5)' KW)
<' <5A "'B<5' 4 1' 42@5)' 2)'b'68A:2"40B<5' 2 ; 8" &\' ('DDG)E
$4 5)' K)
(?2<&)' (<""<'2'"9<' "98 ; < @42' DA "' 4B<)0 (2B 2)' K K)
4@A9< 5 28')' 5" ?' '"9<' : A<42' ; ; < @<' = "9' 2B 4)' (2B 2)' K K)
22405' ; ; < @<)' Z'G 05)' (:B 2)' K U)
4@@:00 @9& 6)')' '5<0<@"' 00<@" 2' '5 4"@<'42B'G40:4C0<' 4@"5' 2' ; ; < @<)'
(2B 2)' K UW)
@" 24 ?' ' ; ; < @<'42B' ; ; < @ 40 4G -4" 2' (2B 2)' K YY)
4@=4B<&)')' ; ; < @ 40 42B' $ 0 " @40 C5< G4" 25' 2'"9<'!"4"<' '"9<' "" 2'
4 ><"5 K K K E)' (2B 2)' K K)
4-2<20 42BA B&)' @" 224 <'B<'04' B-504" A2'B<5' :42<!)' $4 5)' K)'
3 3' 4 'B<5' "5'B<' :42<)' $4 5)' K & K KK& K KU)
3 ' 54 B' <2'B<'$<"9<5& ()'6)' @" 224 <'B<5'A B:@" 25'B<'04' 24":<'<"'B<'
J4 "& N:' 2'" J C <"'B:' ; ; < @<'B<'04' ' 42@<))<"'B<5' "5' 4:DN:<05' <0<5'
0' 4 2" ; A 5B<5)' 'G 05)' $4 5)' K W)
4 " 2& $' 9<' 5" ?' ' B ?BJ5'42B' ' 4 2<' 25: 42@<' 2' <4"' "4 2)'
(2B 2)' K Y)
00& 6)' ; ; < @<'B<'<2B<B)' (2B 2)' K)')
<4:'B<'6 22<5&)' (<' ; 2"2<'@<'42' @8<@0<' 'G 05& $4 5)' K U)'
<4:& <0<5" 2)' @4BB ; <'B<'J 2B:5" <'4- @ 0<& ; 4:: 4@": < <'<"'@ ; ; < @ 40<)'
$4 5)' 8K Z)
<4:& B54)' "5 9'5 ; B' 59'<DA "5))) < ; 'K W '"'K Z)' (2B 2)' K)
M3' 4C0<4:'@ ; A4 4" 'B:' ; ; < @<'B<'04' ' 42@<)' (2B 2)' K Y)
<0&)' 5" <'B:' ; ; < @<' <D"B <:'B<'04' ' 42@<' B<A2 5' 04' BG 0:" 2)'
$4 5)' K YW)
2G 2<& $)' j)& :2"')' !4-- '5 A 4' '; <aa'B'5:AA0 <'40 4' @4 <aa4'B<0'a:@@4 &
<"@)' : 2)' K)
$ "<&)')' $ - <55' '"9<' 4" 2' K K Z E)' (2B 2)' K ZY)
<294 B&)' '@ 2@5<' 5" ?' '"9<'A <5<2"' !"4"<' '"9<' ; ; < @<' '<4"'
1 "4 :)' 42504"<B'C?6)'!4G4-<)E' (2B 2)' K U)
5<& -9"' 2)')' 'C <' D4 ; 24" 2' 2" '"9<' 2@ <45<' '"9<' <G<2:<&
; ; < @<'42B' 4G -4" 2' ' <4"' "4 2)' (2B 2)' K)
!A<2@<&%)' "4 2' 2 <A<2B<2"' ' ; ; < @<)' U"9'<B)' (2B 2 ' K)
><&)' ' 5" ?' '$ @<5'42B' '"9<'!"4"<' ' @:04" 2' 24'KYW '"'K Y)
05)' &' 2)' 'G 05' (2B 2)' K UY)
2B<' ; 8< ' <-:04" 2'0@<2@<5)' h 2 2)_' (2B 2)' K KK)
' ' "59' 2B:5" ?'42B' ; ; < @<' :22 2-94 ; & (<G E& ' ! 'Q =

2 ' ! ! '6=

(:;C 5& 4 2')' 4A 0< 2<' '<K' 2-90"< 4 ' ; <)' K WY)' 9<'5:AA0<'
&0' ; <2"4 ?'G 0:;<@ 2"4 25'4'59 "' C0 - 4A9?' 2'"9<' 2" 2<2"40 !?5"<;)

:-94;&)&(B& !A<<@9' & 2' :5<' ' ; ; 25' A 0'K&'K & 4-4 25"' "9<'
B<5'2' C:2@0)' (2B 2)' K)
; ?&)' (<' 0@:5'@ 2" 2<2"40)' "@0<' 2'"9<' @" 224 <'B<5' ' 242@<5&
<B "<B'C?'(<2'!4?)E' $4 5)' K W)
"" - 4"9&)' 4;C: -' :2B'B<'/<2" 2@2"405A <)' 4;C: -)' KW)
G<; 5& ')' B<)' <@"5' '"9<' 2" 2<2"40 0 @>4B<)' (2B 2)' K K)
<?'" ' <' B<5'2' :2@0 2 2)E)' (2B 2)' K K)
/ <580C4@9& %)' <' 2" 2<2"405A<' <)' !":""-4 "'42B' :C2-<2)' K U)
(@<25<'!?5"<;& 9<)' c:4 "<0?' <G <=)' 4?& K KK)' (2B 2)' K KK)

4)' D;)

Z ' C& C , '

(B< 5 ( ) 45 2" 2<2"405?5"< ; 0 ! Aa - K K)
00<2<"(!) (< !?5"< ; 5 @ 2" 2<2"40 <"0<5 2-04 5) $4 5) K Y)
$9 00 ; <(6) 8 0<@" 25 2' "9< 24": < 42B <D"<2" ' "9< (@<2@< 4B<)
2B <B) (@ ; B 2) K KKH
! 9 <""< ' 2' "9< (@<2@< 4B<) B) K K)
5<F 6)) ' B @: ; <2" <04" 2 - ' " ' "9< L82" 2<2"40 !?5"< ;) 2 - 0 59 5" @40
<G <=) ' DG :)E (2B =) KW)
! <9 08 <0( ) %) B) ! ' 0<' 8 5"8 ; < @ 2" 2<2"40 <" 5<5 4AA "5 4G<@ 04 ! : <)
4 ; C : - K K)
! "4 - 0 05"8( ) 1 ' B<H 4 <55) 2' AA<40 " ' "9< 4" 25 ' : A<
4 - 4 25" "9< 2" 2<2"40 !?5"< ;) !" @>9 0 ; ' 42B (2B 2) K K) 'B : C" : 0
4 : "9<2" @ "?)E
3 ' (< 5?5"< ; < @ 2" 2<2"40 <" 5<5 4AA "5 4G<@ 04 ! : <) ; 5"< B4 ;) K K)

/ ! ! ! ' B

a : 2 ( )) " ; 4 " ; < B< : A<8' 'G 05) $4 5) K U)
' - 2< <" A - <5 B : " <" B< 04' (<- 504" 2' ; 4 " ; <8 4G<@ B<5 C5< G4
" 25 5 : '0< 25 : 04" B< 04' <) $4 5) K K)
04@>5" 2<(! ' %) ; ; <2"4 <5 2' "9< (4=5 ' 2 - 042B) Z' G 05) <=' <B)
(2B 2) K KK)
: 5@9( ] ') 0>< 5<< <@9") 4 ; C : - ' 42B 0" 24) K K)
' 4 : <9 <($) : ' 0 @ : 5 ; 4 " ; <' <" : B< B< B " 2" < 24" 240 <" B< B "@ ; A4 <)
$4 5) K)
' : 2@> <2"42 ( )(42B ! <0( ) $ B@ 5 B : ' " B<5 <25) $4 5) ' K YY)
455 ( ) 0 @@ ' <" B "" ' B ' G 5 "4(<2 4) K
4 : "< < : 00<(()) "5 <" B<G 5 B<5 24" 25 2< : " <5) ' G 05) $4 5) K)
4=><5C : ?((B) ' 5@ : 5< 2' "9< 2B : @" ' "9< G< 2 ; <2" ' <4"
"4 2' 2' <5A<@" " ' 2< : " 40 4" 25) 04 2B 2)(KYWZ)
64@ C5<2(') 6) 42BC : @9' C< ' B45 h24 " 5@9< ! << <@9" B< ' 2 - 042B< ' 22B
' 42a 5<2) ' G 05) 4 ; C : -) K B)
' ! << <@9" B<5 ' <B<25 : 2B B<5 8A5) 0" : 4) K KU) 2 - 0 59 " 42504" 2)
(: B 2) K K)E
/ 0 : C< (6) () " B<5 <25 ; B< ; < Z ' 0 : A<) 'G 05) $4 5) K K)
422 2 - (%)) ; ; <2"4 <5 2' "9< (4=' ' 4" 25) <=' <B) <G 5<B C?
!) ; 5) (2B 2) K YU))
4 "<25(') B<) 4 : 5<5 @<0<C <5 B : " B<5 ; !H $4 5) K UW)
! "<A9<2(6) %4 ' 2' 5 - : 5<F ' "9< ' 4 : B5 ' "9< 2< : " 40 $ 05 8) (2B 2) K U)
% 9<4" 2( ) -<5" ' "9< (4=' A ' 4 " ; < 4A" : <5 42B $ a<5) <=' # >) K KU)
' 5" ? ' "9< (4=' ' 4" 25 2' : A< 42B ; < @4 ; ' "9< <4 0 <5" " ; <5
")))K Z) <=' # >) K ZU)

< ! !

<55 2(6) 5" < 242@ B < B< 04' ' 42@<) 'G 05) $4 5) K W)
42 09( ) 554 ' A 0 " N : < 5 : ' 0< <G<2 : ' A : C0 @) 'G 05) $4 5) K)
4 : B 2( ))) : < B< 4 !"<E) " @< 9 5" N : < 5 : ' 0<5 ' 242@<5 B< 04' ' 42@'
K KZE) $4 5) K K)
; <0( ) 5" < 242@ < < B< 04' 8G E : " 2' 42 4 5<) $4 5) K W)
<22<"( ) 6)) < ; <5 : ' 0< <"4C0 55< ; <2" B<5 ' 242@<5) $4 5) K KZ)
@ 045( ) (<5 : B - <"5 B< 04' ' 42 < B<A : 5 0< @ ; ; <2@< ; <2" B : ' D D t' 5 C@B
$4 5) K)

' 9 + =

4?(!) 9< 4 : 5<5 ' 4' 4" 2!5 $ - <55 2' %<40"9) 2' 9< $4 ; A9<"<< 8'
0) x) (2B 2) K) M
B<C 4 : B( ) 649 C : @9< ' : ' 4" 240 >@2 ; < : 2B ! "4" 5" >) 6<24) K (R

Q f%% ZK

A ! '

92 "0B( ) ' A0 ; 4" < 455< Z ! " @>9 0 ; ' 2' K K) 2' <G : < 9 5" N :)E
(' DDDG2) ' 4 4' K) S
2"-4 004 B(H B<) 8 ; <5 B A0B"24" N : <5' K KWE) $4 5) K W1
$ A ( )) <04" 25' ' : 55 4' = "9' "9< : A<42' G< 2 ; <2"5 C< < "9< %4 '
8K K) 2 : 559 ;)E ! '" $<"< 5C : -(K Y)
!@9 0B< ( ) /) : 55042B' 2' 5< 2<2' <5 <9 : 2 -<2' a : ' : A4' =49 <2B' B< ' <- < 22-'
0<8 B< 5' K (K KU) 2' : 55>4 4' !"4=2 ' K 8W)E
) ' ' ! B< : J5 00<@" 2' ' <4" <58' ' + ! 'Q =

\ ' =
4 5( ) 25' 54 <5' 42 5 5' 5 : 5'04' <A2C0 N : <' <'" J ; A <) 'G 05) $4 5)
K ZY)
40 42( )) 9< 2 0 : <2@< ' ! <4' $ = < ' : A 2' "9< ' <2@9' <G 0 : " 2' 42B' ; A <)
'G 05) (2B 2) K W)
b ; 42( )) 9< 54 5' '$ 42@<) (2B 2) K Y)

. ' ! ' ! '
0C< "($) 4B<2' a = 5@9<2' <@><"' : 2B' 5 2' 2' B<2' 649 <2' K K (< B<0C< -)
K8K(2' 00<@" 2.' <: 49 5C0 ""< ' B< ' 4B 5@9<2' 5" 5@9<2' / ": '
; 55 2)E
: 5" 2' 5E) ! >< "@9<5' ' < ; 42' (< KY K KZE((2B 2) K UZ)
< ; < (%) ; " -< a : ' <5@9 <9"< (: C<@>5' 9"' B<2' 649 <2' K K) 2'
0 ""9< 0 : 2 -<2' B<5' < < 25' : ' (C<@><' <5@9 <9"<)))E 05) (4(G(G)
42a -(< 2< ! > aa< 2' < <2) 2 2)E ; 5"< B4 ; ' ; B' 4 ; C : -(K (
4 ; 5"4B"< ($) 45' A55C< a -"92 ; ' ' 42> " '" K K E) ' 42> ") KW K)
< ; 42(6)) ! "4" 5" > < B ; ' 9< 2C : 2B5"44"<2) 'G 05) ' 42> ") K K)
S3 RM ! "4" 5" 5@9< 4 5"<00 : 2 -' B< ' 00? 5@9<2' $ G 2a<2) $4 '" ' 20?' A : C0 59<B)
: C 2 -8) K K)
: 5C : -(')) < ; 40B<' G 2' 42a -(2<C5'" < ; < > : 2 -<2' 4 : ' < 2< ' < 5<' G 2'
4 ; B-' 24@9' / 2 -5C< -) < 92' 42B' (< Aa -) K W)
B=4 B5( ) 9< 5" ?(@ G 0 42B' <@@<5 45" @40(' "9< " 59' 0 2 <5' 2' "9<
0 %<5'" 28<5(U"9' <B ") 'G 05) (2B 2(!0)
; : ( ))(4 2) (<5' ' 42A4 5 <2' $: 55<(K) $4 5) K Y)
'4C< ( ) (G 2) " @<5 5 : ' J 2"B <: ' B '04' ' 42@<(BA "<5 <2' K (! '" $<"< 5m
C : -) K Y) 2 -0 59' " 42504" 2) (2B 2) K KK) 05 ' 2(142B<!' '
24A4 "<' A4 ' " 5' <" 42 -< ^) (2B 2) K K E
' <?"4 -( ) 0B< ' 4 : 5' B< ' B< : "5@9<2' < -42 -<29< "') 0) G) (< Aa -) K)
' B< @ (6)) 6' 42B' 8 G < (' (%) <5@9 <9"< B< ' ! "4B"' 524C ""@>) K K)
4 25 B(!) 554?' 2' "9< - B' < <@"5 =9 @9' ; 4? C< B< G<B' ; ' "9< " 59'
%<5'" 2B <5) (2B 2) K K)
@><( ) 45' 559< a -"9 : ; ' < -(K K) 0 -2<) K YY)
3 3) 45' / ! 2 - < @9' %<5"A940 ;) ! <C<2' 649 < 42a 5 5@9< ' ' < ; B9< 5@94 '" ; '
< a<2' <2"5@9042B5(K Y K) 55<0B) K)
80 (' 25 B< 4" 25' 5 : ' JB"4'' 4<" : <0 B< 42a -) K KK)
455<0( ) 42B' : 94 B(/) %<5"A940<2' : 2"< ' < 2? ; : 5' 4A 0< 2') 'G 05)
: 25= @>) K K)
4G< ; 422(%) 45' / : : 5"<2"9 : ; ' 422 G< (K K) 6<24) K Y)
<< <2( )) 1 ' <5@9 <9"< B<5' / 2 - < @95' 422 G< 5) ' G 05) 42 G<)
(' K Z)
<0 - 042B(4@@ : 2'" '"9< 2"< <5" 2-' 5042B') 2 2)E (2B 2) K KK)
; 422(1 ' <> 2 ; 5@9< <5@9 <9"< 4?< ; 5' : 2"< ' 2"-<045(KYWW K KY)
4?< 5@9< % "5@94 "5 ' 42B' < =40" : 2 -5 ; : B <2)E 042 -<2) K U)

Z ‘ T , +‘

e B 8C145=($)‘ 4G :"‘ 2‘ 4 ; C: -)‘ :9 9< ; ‘4)‘ B)‘ :9)‘ K W)
6*<BC5<2H‘ $)‘ 6)‘ < " 4-‘ a: ‘ <5 @9"‘< G 2‘ 0" 24‘ 2‘ B< ; ‘ % 2"< ‘G 2‘ K K ‘ :2B‘
)‘ K KZ ‘ 0" 24)‘ K KU)
/ 0 : C< (6)‘ ()‘ !"44"5 <@9"‘ B<!‘ 9< 2C: 2B<5)‘ : C 2-<2)‘ K)
/ BC0< ( )‘ <5@9 @9"‘< B< ‘ ' 5": 2-<2‘ 42a -‘ 22B‘ %< @95<02 : 2B‘< C 5‘ a: ; ‘ 649 <‘
K KZ)‘ ‘G 05)‘ J<5042)‘ K W)
?B( )‘)‘ 4 ; C: -9‘ 2‘ K K (= "9‘ 4‘ G <=‘ ‘ "5‘ @ 2B " 2‘ 2‘ K K)‘
(2B 2)‘ K K)
! 2@9 <C< -( )‘ 4 ; C: -‘ : 2"< ‘ B< ; ‘ : @><‘ B< ‘ ' 42a 5<2)‘ 4 ; C: -)‘ K Z)‘
_L07B2Kj 8 0048( )‘ B<)‘ 9< 5 ": 4" 2‘ ‘ <4" "8‘ 2‘ K KK‘ " 42504"<B‘ C?‘ ')‘ %)‘
04-B 2E)‘ (2B 2)‘ K K)
$ 60H B)‘ 1 22* ; 2-<2‘ 4 : 5‘ B<?‘ $@42a 5<: a< "‘ 2‘ 4 ; C: -)‘ 4 ; C: -)‘ K W)‘
! ": "(8 ‘ <‘ <40 !"4"<‘ ‘$"9 ; <‘ 2‘ 8 ‘ ?<4 ‘ K W‘ (2B 2)‘ K K)
! ?B2<?($ ‘ @)‘ 9< <4 0?‘ B ?5 ‘ "9< 2<"<<2"9‘ <2": ?‘ 2‘ 2-042B(K)‘
‘G 05)‘ (2B 2)‘ K W)
9 ; ; <(')‘ %)‘ <‘ 22< <2‘ !8 : <" 2B‘< B<5‘ / : 5"<2": ; 5‘ 422 G< ‘ : 2"< ‘ B< ‘
42a 5 5@9 =<5"A940 5@9<2‘ < 5N94 "(K K)‘ ‘G 05)‘ 42 G< ‘ 42B‘ (< Aa -)‘
6?‘ K WU)
2 2( )‘ B<)‘ <‘ $ G 2a‘ 9 <: "9‘ : 2"< ‘ 42a 5 5@9 ‘ < 5@94 "(K K)‘
% : 25 <B<0)‘ KW)
<=‘ ‘ "9< @ ; A4 4" G< !"4"<‘ ‘ <4" "4 2‘ 42B‘ ' 42@<‘ 2‘ K KK)‘ 2 2)E‘
(2B 2)‘ K KK)
% 40" 2(%)‘ $ <5<2" !"4"<‘ ‘ <‘ ! A42 59‘ 0 2 <5(2@0 : B 2-‘ 4‘ A4 " @ : 04 ‘ @@ : 2"‘
‘ 5A42 04)‘ ‘G 05)‘ (= B 2)‘ K K)
^ ; ; < 2( )‘ 9< 4254‘ : 5)‘ 2B 2)‘ K W)
' ‘ -<2< 40 = >5‘ 2‘ <=24 : ?‘ : 2B< ‘ ' <2@9‘ B ; 24" 2(‘ ! ‘
Q =

)‘ (( )

9<‘ <2 : ; < 4" 2‘ ‘ 4 : "9 " <5‘ <04" 2-‘ " ‘ 0042B‘ 2‘ "9< C0 - 4A9?‘ ‘
94A"< ‘ X ‘ 405 ‘ 4AA0 <5‘ ")"9 5‘ !<@" 2)‘ ' ‘ / 2-‘ X : 5‘ <B<4 25‘ 2‘ "9<‘
G< 2 ; <2" ‘ 0042B(‘ ! ‘Q =

"@ : 2$ ‘ , $ '

<0A 4"( )‘ 6 : 240 A : C0 59<B‘ 2‘ "9<‘ B 4-<2‘ 2‘ B<B<<0 2-<2‘ G42‘ 9<"‘
9 5" 5@9‘ <2 "5@94A‘ DE)‘ " < 9")‘ K W)
<5@ A" 2‘ 5 : @@ 2@"<‘ B : ‘ ?4 : ; <‘ B<‘ 0042B<‘ " 42504"<B‘ ; ‘ "9< : "@9E(
I8 2)_‘ ; 5"< B4 ;)‘ K ‘ lg_)
' 40@>( )‘)‘ <G<2‘ KYWU K Z E)‘ 9<‘ 4- : <)‘ K UY)
<00(%)‘ ')‘ < 504-‘ <A "‘ ‘ / 2-‘ (: 5‘ 5 : 2‘ 4"‘ $4 5‘ 2‘ K W K E)‘
; 5"< B4 ;)‘ K Y)
! 2-8 <?< a(<)‘ < 0<D 25‘ ! : ‘ 0<‘ ; ; < @<‘ B< 04‘ @ B<G42"‘ 0042B<‘ B<A : 5‘
54‘ <: 2 2‘ 4‘ 04‘ ' 42@<)‘ ; 5"< B4 ;)‘ K KK)
' ‘ "9<‘ < ; 5‘ 42B‘ (<""< 5‘ ‘)‘ 42B‘)‘ /)‘ G42‘ <-<2B A(‘ !
Q =‘ 0042BE)‘

‘

4 ; < ( )‘ (4‘ @ : ‘ B<‘ 0042B<‘ 5 : 5‘ 0<‘ <-2<‘ B<‘ (: 5‘ 24A4 "<)‘ $4 5‘ 42B‘ M
; 5"< B4 ;)‘ K)‘
6 55<2( )‘ <‘ 2B< -42-‘ G42‘ 9<"‘ / 2 2- >)‘ 0042B)‘ K YK)

<2B<05&)) %) 4<2B<05' KY K K E) ' G 05) 9< 4- :<) K W)
8G 00<&) (4' 42B<'<"0<' ' (: 5) 2' <G) B 5' <: D' 4 : B<5)E $ 5) K Y)
!@9 ; ; <0A< 2 2@>& : 2"") : "-< '642' ! @C 2 2<0A<22 2@>'<2' <<2 -<' -<C<: "<2 55<2'
G42'a 2' " B) ; 5"< B4 ;) K ZU)
% @C< 5& () <' <-<< 2-'G42' / 2 2-' (B<= >' 4A 0< 2) 6" <@C") K W)

' '"9< A 0 " @40 9 5" ?' ' 5 9 / < 2A< & N : <00<05 00 4A 0< 2' "' J 2-0<'
"< <&\' 6 55<2' 42B @N : 4 2' 2' "9< <04" 25' C<"=<<2' 4A 0<B2' 42B' / 28' (: 5&
42B B2' 455<05' b (<5' 5' ' 8 <5&\' ' ! 'Q =' ' '"9< < ; 5' '
:G 4 B 42B' 4B<0 2<5' (<' ' ' : @9B& 'Q =' ' " '/# ')

) $ (!' ' ! (#)

! 2 - 1 3' : @ 1 ; D255)

04N: < <&) (<""< 5' ; ' "9< 6 0<B "< 42<42& @ 2"4 2 2-' 4' @ G 0' 42B' A 0 " @40
@@ : 2"' ' ! @ 0?& <"@) 'G "<) (R ; B 2) K K)
@>C: ; &) (<: ") <2)E) ?4-<' " ' 4B a& C 40"4 ' 42B' 4' B<5@ A" G< : ' 2'
! @ 0?' 2' K K '42B' 6 ! 00) 'G "<' (2B 2) K KZ) 0
400 & : @4' B) < ; <) ' ; ' @9 G ' 5" @C' A< ' 0<' $ G 2@< 4A 0<"42<)
22) D) '$4 "')E' 4A0<5& K) 2' A - <55)E
40"& 6) ?4-<5' 42B' 4G<05' 2' !4 B 2 4& ! @ 0?& : ><?& <"@) = "9' 5"4" 5" @40
C5< G4" 25E& K W KK) (2B 2) K K)
<& ! '6 92& 4 ?') B "<B' C?' 8 ' ') 4 : @<) 'G "<) (2B 2) KW Z)
0 & : 2"') B ; <5' 9 5" N : <5& A 0 " N : <5' <" 0 ""< 4 <5' 5 : '0<' ?4 : ; <' B<
4A0<5) U' G "<) $4 5) K K)
8
$ -24"<00' ! " 2- 0 & ') < ; <' 2" ; ' 40 <-2 ' B' 4A 0' B40 K ' 40 K K)
4A0<5) K)
) 9 ; A5 2& %)) ! @ ?' 42B' "5' 294C "42"5' 2' K W 42B' K K) (2B 2) K K)
25A<4 <&) !" 4' B<-0' 4C : 5' <2B40) 'G "<) 4A0<5) K KK)

' '"9< < ; 5' '(B' 45"0< <4-0 & "9< 0 <' 42B' <5A 2B<2@<' ' : 4"&
42B "9< < ; 5' '6 5<A9' 24A4 "<& ' ! ' =

'

22<50<?&)' 5@ : 2"' 40<2" 4E& $ G4"<' 6 : 240' '"9<' "< 5' ' ! @ 0?) 2'
" 59' : 5< : ; F BB " 240' ! !) KWZ)E
42@9 2 &) (H ! " 4' B<00<' ' 242a<' B<0' <-2 ' B' 4A 0) B' <B) 4A0<5) K W)
42 &) (4' ! @ 0 4' B : 42"<' ' @@2A4a 2<' 0 -0<5<' K K E) $40< ;) KW)
=2 2-&) 9< ' 0 -9"' " ' 4 <22<5' 42B' "9< ' 9 5" @40' 554?5)) 2")E
(2B 2) K W)
42" : &) <004' 2B<A<2B<2a4' "40 424) " 2 5" 4) ' G "<) : 2) K Y)
00<" 4& $) ! " 4' B ; ' <4 ; <' B ' 4A 0) 'G "<) 4A 64- & K)
<5A 2B<2@<' <04" 2-' " ' ! @ 0 42' 4 5' K KZ K E& A <5<2"<B' " '$4 0 4 ; <2"& K ZW)
: ; 45& 4G?' B<' 04' $4 00<"< <&) ' C 2 ' B ' 4A 0) K 'G 05) 4A0<5) K)
4-2 C <&)) (4' <2<' 4 < 4 0 2<' B<' 4A0<5' B)4A <5' B<5' B @ : ; <2"5'
2 : G<4 : D) $4 5) K W)
< G<? !4 2" <2 5& 4 2' (B 2)B<) 5" <' B<' 04' BG 0 : " 2' B425' 0<5' <: D'
! @ 0<5' B<A : "<' KYW) $4 5) K)
6<4 <5 2& 6)) 9< c : <<2' ' 4A0<5' 42B' (B' <05 2) 'G 05) (2B 2) K W)
6 925" 2&)) (B' % 00 4 ; ' <2" 2@>' 42B' : 4"') 2' 2-0 59' 5" @40'
<G <=& G 0) D D) (2B 2) KW Z)
8 2 ") ' : 2"<55') < ; ' '"9< -9"' 2) : -9' 00 '" B 2C : -9) K)
$40 ; < &) !4-- ' 5" @ ' <' A 0 " @ ' 5 : "<' @ 5" " : a 2<' B<0' <-2 ' B' ! @ 0 4'
2 2 ' 40' K K) (4 : 5422<) K ZY)

$40: ; C &) 4 4 4 0 24& <- 24 B<00< :< ! @ 0 <) 4A0<5) K YY)
$<A<&) <2<2BE) <2" < 2" ; 40 4 5 : 4 "4& < 5 <@<2" 45 BJ "40 4)
$4 4 K ZY) I 8 " ! 5 4" 2) 05) (2B 2) K W)_
<2@90 2& ! ") <= C @9"< <4A<05 = 4C <2B B< 0<"a"<2 5 <C<2a - 64C <& B4 -<5"<00"
4 ; C < 2 B< <2< 40<+ : 2B %) $<A< B0 2 - <2) K)
! @9 A4& G4 2 &) ! " 4 B < 0 5 - ; <2" " "40 42) & ' : 2) K W W)
8 #)) (< $ 2<< : -<2< <" 2 4". A< 4" 25) ; "4 <5& 28 @ 4" 25
0 8A0 2 ; 8<5) e 205) $4 5) KW)
' -<2< 40 = >5 2 "40 42 C 5" ? C? ""4 42B B< 45" & = >5 2 c : <<2
4 4 4 0 24 22< 25& <0 < "E& 42B 2 "C< 4A 0< 2 @ ; A < 2 !) "40?
6 C25" 2E& ! Q =

) / # KY W K K E)

3 > ? 8 @ ! 9 A 0 & ') ; B85 A 0 C D

AA<&) @ : ; <2"5 28B "5 5 : 0<5 <04" 25 B< 04 ! < C < 4G<@ 4A 0< 2)
8 - 4B<) K)
" 2& %) ! 2 G<? R" "9< 2 > 5C ; A <) (2B 2) KY)
3 ' @ 2@ 5< @@ : 2" "9< < ; ; < @< 42B 4G -4" 2 "C< 04@> ! <4) K &
' 0<""< " "9< 4 0))) 2 "9< A 0 " @40 <04" 25 : 55 4 2 <-4 B "
: > <?& <"@) (2B 2) K Y)
40"& 6) (<""< 8 ; "9< (<G42"& <"@) (2B 2) K K)
4 B42<& $&) ( ) B *) 6 : 240 BJ 2 ?4 - < B425 04 : N : < BJ 5 < 4" 04 $< 5<&
4 " <2 K Y <" K) A"5) $4 "<) K R f)
4 ; 0" 2& % ' < ; 4 >5 2 ! <G< 40 $4 "5 ' : > <?) (2B 2) K W)
4 ; ; < $: -5"400& 6) G 2) <5 5 ; 42 5@C<2 < @9<5 ! "44"5G< 455 2 - 2B ! "44"5
G< = 40" : 2 -) G 05) 0C 2 - <2) K K)
0042B&) 4G<05 2" " "C< 2 42 50<5& 0C42 4& 9<5540? 42B 4@<B 2 4
K K E) (2B 2) K K)
455 2&) $) $) B ; <5 ! <@ <"5 5 : 04 : 55 <& <" A4 @ : < < ; <2" 5 04 2
B : Z - 2 < B< 4"9< 2< <" 5 : @<0 : B< $4 : 0) $: C0 59<B 42 2? ; : 50?)E
Z G 05) ; 5"< B4 ; $4 5E) K)
< & 6) 6 : 2<? 9 : - 9 $< 5 4& ; <2 4 42B 5 4 2 " ' 25"42" 2 A0<
2 K C W) (2B 2) K K)
$: N : <G 00<& '))) () 4G<05 2 "9< <4& 0C42 4 42B "9< A4 "5 "9<
"" ; 42 ; A <) 42504"<B ; 8 < ' <2@9)E (2B 2) K K)
! 4@?& !) B<) <5@ A" 2 B : ' 4@940 > B< 4 - B4B) $4 5) K W)
9 2" 2&) $ <5<2" ! "4"< ' : > <?) 2Z <B) G 05& (2B 2) K W)
><& %) 5" ? ' : 55 4 2 "9< < - 2 ' 4"94 2<) Z"9 <B) G 05)
(2B 2) K) 0
' "9< < ; 5 ' 4 ; : "& ' ! Q =

' 6

B4 & - 9" 2) ! ') 9< <- @ 4" 25 "9< $<4@< "9< 4 B42<00<5 2
K W) G 05) (2B 2) K Z)
<00 @& ( ) 24A4 "< <" 0<5 <@5) $4 5) K)
N : <00<& $) (4 55 2 B< ! BC45" 4 : ' B 25"42" 2 A0< <2 K K) 2 <G : <
BJ 5" < B A0 ; 4" N : <)E 6 : 0?& KW)
: 2 C< "&) !) 554 9 5" N : < 5 : 0<5 <G 0 : " 25 <" J02B<A<2B42@< B< 04 ! < C <
B<A : 5 K Z : 5N : J9) G 04 (< Aa -) K)

22 C< "4 ') (4 ! < C 4 < 04 BA 45" 4 B -0 C 82 G "@9 K Z W) : 2) K W)
4 0") 6(4 $ 0 " N : < <2"40< B< 4A 0< 2 E) $4 5) KW Z)
; < 5 2 6) I4 "< =4 B5 !) 6) ; < 5 2 <2 : <2") 5" ? B< 2 <<@< " "9< A <5<2" ; <) G 05) (2B 2) K)
2-<094 BL) (4 : N : < <" 0< 42a ; B" 2 5" < B<5 B ; <5 B425 I< ; A < " ; 42) G 05) $4 5) K Z)
5 <42) (4 55 2 B< ! B ; 2G 00<) $4 5) K Y)
< C<""<<) 2< 4 ; C4554B< " : N : < 5 : 5 0< <N" <) $4 5)H KW)
C9 :5< 6)) 6 : 2<? "9 : -9 0 2 ; 4 42B "9< $ G 2@<5 : ><?))) 2 K W K) G 05) (2B 2) K K)
6 B"@9<>< 6)) <5@9 @9"< B< : 0-4 <2) $ 4-=<) K Y)
62@9< <4 : B< ! " <2?5 4 2) B<) / BG 0 : " 25 B< 25"42" 2 A0< <2 K Y <" K) G 05) $4 5) K KW)
4 : ?422) 5" ? "9< 2 42 50<5 2 <<>E G 05) "9<25) K W)
@9<0 3) 0 5@9 C <2 G "@9 $ 2@< ! < G 4E) $4 5) K U)
0 "@9BG "@9) $ 2@< 0 5@9 A ! < G 42E) <0- 4B<) K WK)
4" 2)) ! < G 4 "9< ? : 2 - <5" < ; C< " "9< : A<42 ' 4 ; 0?) (2B 2) K ZU)
$<")) 9< : 55 : > 59 % 4 K K 2 : 55 42E) G 05) ! " $<"< 5 C : -) K U Y)
$ 542 $) (4) 40 ; 4" B< KYWU K KU) $4 5) K W) &
3 3 (J @@ : A4" 2 B<5 0 <5 0 2 <22<5 <2 KYWY) 2 <G BJ 5" B A0 ; 4" N : <)E $4 5) K)
$ A)) : 55 4 42B ! < G 4 K U E) 2 : 55 42)E G 05) 5@ =) K W)
$: N : <G 00< '))) 0 : 5" < B< 04 B-B2B 4" 2 B< 04 <@< KYZ K ZE) Z G 05) $4 5) K Z) M
3 < BJ 6 $4@94) $4 5) K)
3 3 ? 8 B425 04 <@<) G 05) $4 5) K)
42><(G 2) [< 5" ? ! < G 4) 2 - 0 59 " 42504" 2) (2B 2) K U)
< 24@9 6) (4 ! < C < <" 0< 2"B2B -) $4 5) K Y)
C< ") (<5 ! 04G5 B< : N : <) G 05) $4 5) K ZZ))
(< 2B< 504G<) A"5 $4 5) K U
B @424@9) 24A4 " < <" 0<5 0 <5 0 2 <22<5 KYWY K K E) $4 5) K WW)
! " <2B 4 0042B <) / 4 4 < -<5 <" 0 5@9) $4 4 K YU)
! @90<R "4 %55<9 B) < <G 0 : " 2<2 2 25"42" 2 A0< K Y E) <224) JbK)
! A40B 2- (<2") 0) ! : G (2B 2) K W)
<5"4 1 2 B<) <@A< 0 B<5 4 "<5 B< 04 $ "< "" ; 4A<) $4 5) K U)
%40 5a<=5> / < ; 42@< 42 ; A <55 4"94 2< : 55 4E) G 05) (2B 2) K WZ)
33 9< !0 ? 4 9 2< 5"94 < : 55 4E) G 05) (2B 2) K WU)
% : 2) ' A0 ; 4" 5@9< <5@9 @9"< B< <2"40 5@9<2 ' 4-<) (< Aa -) K U)
X<2 A 0)H) 5" 4 ; 2 0) G 05) 6455?) K W)
" : B<5 9 5" N : <5 5 : 0< A< : A0< : ; 4 2) 6455?) K)
^400 2<5) $) 554 5 : 0<5 ' 4 : 4 "<5 <"@) 4 5< 00<5 K Z)
' -<2< 40 = >5 2 "9< <2"40 A 0 @? : 5" 4 << E 2 "9< 45"< 2
c : <5" 2 4 : 0"E 2 "9< 9 5" ? : <? <45? 6 : @9< <4 : B< ! " <2?5
^ 2>< 5<2E < <<@< ' 204? 4 : < E 42B "9< < ; 5 4 ; 2"
Q =

@2) D ;)

! "

' "

% / " ' # 1 #

) (#)

& R ' % " 5)

42@9 8 / & ! " 4 B @ : ; < : "4"5 B<004 $ A0 ; 45 4 2 <A<4 2 "40 4 B40 422 ' K KZ) ' G 05) 4 2& K8U&
42" : &) 5A 2B<2a< B< A0 ; 4" @ ' B<004 <A : CC0 @4 < ' B< <-2 ' B "40 4 KYW K KZ) : 2) K Z&8)
3)) >" 4 B8 4 2B<A<2B8a4 0 8 424) # ( ) 4A0<5& ; <) K Y Y)
3 2" & < < "1 @9< : 424) 042) K YW)
AA &) 2240 B "40 4 B40 KY) Y 05) ; <& (: @@4) K Z &
' 42<9<"" &) ! " 4 B "40 4 B 8 KY W 40 KYWW) ; <) K K)
4 4 <0& $) 24A4 "< <"0<5 8A : C N : <5 "40 <22<5 KYW W) G 05) $4 5) K WU)
<G : < 4A 0B 2 <2 : <) B)) (: AC 5) : 2) KW K <"@)
! "<2B940 <2 ' <?0<E) ; <& 4A0<5& <" ' 0 <2@<) $4 >) K UZ)
' "9< -<2< 40 9 5" <5 ' ""4 42B ! @0 A 5& 42B "9< = >5 ' 455 2 42B
4 455< 2 4A 0< 2 42B 9> : 2 0?& ' ! ' Q =

' % & ' 1 , ' ' ' & , ' " # -

" ! = # 3 B ! ! #

G4C<2<&) < ; < B<004 ; 4 G "4& KYW K U) ' 0 <2@<) K)
: 00<"" 2 ' B<00< 0<- - ' B<004 <A : CC0 @4 "40>24 B4 K B <& K) 042)
@ -24 4& ( ) < ; < " 4""< B ; ' B @ : ; <2" ' - 24"<) B) 404 ; 42) ' G 05)
<2 @<) K)
4@@ 2 & '))) 04 ' 0 <E) >" < B< 4B ; 2>" 4" 2 B : ' ?4 : ; < A<2B42" 04
B ; 24" 2 42<4><) $: B5) K) 8
< : < < @4 ; A4-2< B< J4 ; << ' 42@ "40 <22<5 : 50<5 B <5 B : -<2< <4 : 94 ; 4 5
< 0 K K ' <" K KZ& 5 : G < B< ; 8 ; <5 5<@ <"5 A4 ' 0< 9<G40 < ' !) 6) ' "< ; 2
@ : 04 <) $4 >' 42B (: -42) K KY)
' -0 ' : @ 40< B<004 <A : CC0 @4 "40 425 ' G 05) 042) K & Z)
' 5@ 0 &) (J 4a 2<4 24A4 "< 2<0 2 - <55 ' B< 0 2<) (: -42) K)
; 40< "40 42) K 642) K Y 3 K <@) K K & 042)
<0a ' B) 0& ') : < B< (8E) < ; < < 0<"" < <) ' G 05) 042) K U)
2" & @<2a) (<"" < < 2<B "< < 5A4 5<) : 2) K W)
4@@ 0"4 B ' " : ""< 0 ' 0< - 8& 55 4 8 ' " : "" ' ' A @04 ; & <B "" ' <B 4GG 5 & 5"4" ' A : CC0 @4" '
B A ' ' >"4004a 2< B<004 <A : CC0 @4 >40A 24) Y G 05) < ; 24) K ' <"@)
4@@ 0"4 B<00< 0 < 8 ' < A @04 ; ' B9004 <A : CC0 @4 >40A 24& Z 05) < ; 24& 2) B)

' "9< < ; 5 ' : -) <4 : C4 ; 4>& ' ! ' Q =

1

45 2 8 2 5" A < <"" B A0 ; 4" "40 4" B N=0< 2< <G:< 4A 0B 2 <22<< <@ KW 4 @C KW
:542 ' ! "A 4 B 042 42 G 05 042 K K)
45" 2 042 B:"42"<04 B ; 24a 2< 4A 0< 2 @4 K GA0 042 K
: B2<00 ' 2240 B<00< A G 2@ < <c<"<B40 422 0 0 40 K Z <2 @< K Z
$<@@9 "4 B< - ' 5@ 0 (:-42 K)
3 8 !4-8 ! " @ 5:004 ; ; 2 5" 4a 2< 42a <2 B<00 eD "<-2 B "40 4 B40
K 40 K KZ (2B 2 K)
^42 0 2 0B 2 <B 5: "< ; A 0 <2@< K Z)

2 '2 4 0 #)

" ! !%; # 3 ! %

a<-0 B B ?' @@ B a<-0 G C '0 <2@< K Y)
40C <004 G "4 <' B<-0 5@ "" B<0 @ 2"<' <54 <2 ; < ; C 42a4 B e @ "")
2"4 25 40C J5 :" C - 4B4)E '0 <2@< K)
-C<5<4 ; 00 (<"" <5<"@ $ 2 @ G<5 40 2"0<5 $4 5)
; 2 <B< ><2 < <4 5 ; K K <5B<2 K)
94C 0 B<' 0G <4 2 B<2 ! "4" 5" N:< B<5 A G 2@<5 B<' !4G 2<4 BJ 2< 00<4
BJ @N: <'" B<' A4 B<' 8 04 A G 2@<' B4 2B G ; 42'" J42@ <2 A G 2@<' B<
2"<2 ""<2 $4 5 K Z
A540G B 4 <5 B2 4 B 240 G 05 $4 5 K Z)
9 < $ ((<"" <5 2BB"<5 B< "<5 B<' ' 42@<'<"B "40 < KY W 9 K K E :G <5)
0 ; $4 5 K YY)
: < B< : 2)
48 ""4 ; 424 K W 4 "< =4 B5 (4 ; 40<'B<0 4 ; A B -0 K K)
4aa<""4 2 G< 540<2 642 KYY 3 H W 642 K KK '0 <2@<)
2 40<' B<0 B A4 " ; <2" B<00 ; ' '<C K KK 3 '<C K KZ '0 <2@<)
(<"" <5 B: :G< ; <: B2< 40 B<'04 Yf[B G 5 2 ; 0"4 <4 J<D"< <: K KZ)
!!) 2 @9 G B< !"4" 2 2)
4 ; ""42 $ (<"" <5 B< f fG (4A04@<' 4 ' 0 54 4A 0B 2 $ 2@<55<' B<' (:@N:<5<'"
B<' $; C 2 $4 5 0 WY)
@: ; <2"5 5: 0<' ?4: ; <' BJ " : <' K K Y $4 5 KW)
' '"9<' < ; 5 B a<-0 42B 455B24 ' Q =

1>% '

"4 :B B<' 2" ')@9<G40 < B <' B:'A4A<' $ <' ' G 05 $4 5 K
42 B ' " 4 B<004 ; 24 @9 4 $ < 2 2"<!<' 05 2 G ; <' K Y
5@9 <5@9 @9"<' B<5 / @9<25"44"<5 "94 K)
4 :"" ' ! " 4 B<004 @ "<' B '!4G 4 B: 42"<'04 G 0:a 2<' <' K ; A< ' ' 42@<5<'
: 2 K YU)
4 ; ""42 $ 24A4 "<' <'" 04 BA:C0 N:<' B<' (:@N:<5 $4 5 K W)
' '0 54 24A4 "<' $4 5 K W)
4aa4 54)' ! 4 B<' (:@@4 G 05 (:@@4 K)
-2<"' ') ' ' " @<' 9 5" N:<' 5: ' 04 G <' <'" 0<5 " 4G4:D B<' B<' B 42B)
B ; <!' B<' J @4B< ; <' B<5 5@ <2@<5 ; 40<5 <'" A 0 " N:<5 0 D)E
8 <: ; 2" ' G 2 <5@9 @9"<' 5@424J5 5< '" B< ; ' 2B<' B<5 0 <2" 2 5@9<5 ' < '
5"44"N < 0 2 K W
3 24A4 " 5@9<' 22< : 82' 2' 5@424 < " 4-<' a: ' "40 <2 5@9<2' <'
5@9 "< (' G)E < 0 2 K Y)

) x)

Z ' (& , ,

B @424@9 f e) e0 54 4A 0B 2 <2 "4 < $4 5) KW)
2 ; 2 $)))& ; "< B<) 8 : B<5 5"*" 5" N : <5 5 : ; <'"04' A4 " < @@ B<2"40<
B<5 B"4"5 ; 4 25) ' >) $4 5) K 8 K)
^ C 8) ! " 4 @ G 0<' B c4'!" 5@424'B40 KY Y 40 K Z) U G 05) ' 0 <2@<) K U)

) . ,@

> +N =' # 3 ! #

42@C &) ! " 4 BB0<' 1 *2a<' B<0 <-2 ' B ' 4A 0) 4A0<5) K UW)
200<"" 2 ' B<00<' B 242a<' B ' @ ; ; <554 ' A4 " " ' B ' B ; 42 ' <D < : B40 ' <' @ ; '
; : 240 ' 2<00<' A G 2@ <' B<')) 40 B ' N : 4 B<0 ' 42) Z G 05) 4A0<5)
K U Y)
42C : ?& ! '" <2 ?) 42"4" G<' '5 2 <' A4554-<5 2 " <' - <4'" =4 ' = "9 ' 42@<' ; '
KYW ' " ' K K) (2B 2) K UZ)
<B< ; & B<' <0B< & <2<4 (' B ; <5 B : ' KYYZ K U) $4 5) KW)
4 B 2& () X) B<)) 5@ : "5& : 240 ' <'" 5 : G<2 5) Z G 05) $4 5) K)
<@ & ()) 2240 ' B<004 ' @ "< <' 404C 4& KYW K KK) ' G 05) 5<2a4& K Y)
" B<' B0 " &) ')& ; "<) B ; <5) ! ' G 05) $4 5) K U) 2 -0& " 4250)
<=' # ">) K K)
8 3 ' 4AA '" -B2<2B 5 : ' 04 ' 8" : 4" 4' B2' ?44 ; <' B<' 4A0<5 A<2B42'" 0<5 422B<5
K ' <'" K Y& A <5<2"5 4 : ' ' <2' 5 2' 25< ' B B"4" A4 ' 0<' ; 2 5" <' B<' J 2"B <:)
4A0<5 ' K)0
0 & ; "<' <-) 8 <5' 9 5" N2<5& A 0 " N : <5 <'" 0 ""< 4 <5 5 : ' 0<' ?4 : ; <'
B<' 4A0<5) B "<B' C?) : G40& U G 05) $4 5) K K)
$<A<&) < ; <' 2" ; ' 40 4' 5 : 4' G "4) gé G 05) $4 5) K ZY)
$ -24"<00 ' ! " 2- 0 & ') ; <' 4" ; ' 40 4' 5" 4' B<0 8 2 ' B ' 4A 0 ' B<00 ' 422 '
K U 40 K KU) 4A0<5) K)
G4 0&) " @<' 9 5" N : <' 5 : ' 04 ' 4 C <) $4 5) K KY)
' ' "9<' < ; 5& <"@)& '6 5<A9' 24A4 "<' 42B' : 4"& 5 ' ! ' Q =

1 '

@9 G ' ! " @ ' A< ' 0<' $ G 2@ <' 4A 0 "42<)
: @9 0"a& ')) G 2) <5@9 @9"<' B< ' - < : 2 -' ' < B"242B ' & 4 : 5' -<B : @>"<2'
c : < <2) W G 05) <224) K K)
00<""4& $) ! " 4' B<0 <4 ; <' B ' 4A 0 ' B40 KY Z' 40 K) ' G 05) $4 5) K U)
2 -0& " 42504" 2) B 2C : -9) K U)
) A< < 2<B "<' < 4 <) 4A0<5) K K)
-0 0 & 25"42@<') 4A0<5' 2' KYW)]E2B 2) KWR8) C0 - 4A9?)E
6 925" 2&)) 0 9<' 4A 0< 2 @' ; A <' 2' ! : "9< 2' "40?) ' G 05) (2B 2' " ; B'
<=' # >) KW Z) C0 - 4A9?)E
!@9 A4&) ' <-2 ' B ' 4A 0 ' 5 "" ' ' > 2 ' 4A0<5) KW) 8

) ' 3

: G 2&) B<) 400<A 42B& $ 2@<' B<' 1 <G<2"') <G : <' 9 5" N : <) 05)
DD : & DD G)E
4 " 2&) $) $) 400<? 42B' <'" 04 ' $ 2@ A4 : "B' B<' B2BG<2") <G : <' B<5 N : <5" 25
9 5" N2<5) (' ;)E

2) ' ' ((# ' $!)

: @9' 2 ; 4" 2' ; 4? C<' -0<42<B' ; ' "9<' @9 G<5' 4" 240<5& K@@44B'
) ')) & $4 5) ' ' "9<' < ; 5 ' 4 ; 2"& ' ! ' Q =

AA<& $)' 1')' (<-' <- ; <A"'5 C4"<5'4'04' 42B<' 2: <)' $4 5L' KW 8
C<&)' !" 4'B<004' 40 ; 4a 4'B40 KYWY'40 K KZ' ^4 4)' K W)
$ 542& $)' (4' 40 ; 4" <B<' KYWY' K K)' $4 5)' K W)
4@@ 0"4'B'0<- - & B<< <"'<' <- 04 ; <2 '4B'25'BB0<' G 2@ <' 00 @9<'B<00' ; A<')'
KZ'G 05)' $4 5)' K K)

" 0)' ' ' ! (!)

B @424@ &)' 24A4 "<' <'' 0<5'0 <5'6 2 <2 <5'KYWY K K)' 4 5)' K WW)')
<G:<' " N:<& A)' & KW)E

)' #)

:@9' :2A:C0 59<B' ; 4"< 40 5 " 'C<' :2B' 2' "9<' @9 G<5' 4" 240<5' 2' $4 5
<5A<@ 400?' '"9<' 42B B:@9?' ' < -E& 2' 9<' !"44"!4 @9 G' < 0 2' <5A<@ 400?' '
"9<' / 2-B ;' ' %<5"A940 4E 42B' 2' "9<' 4 @9 G<5' ' 42 G<& 55<0B & 4 C: -&
42B % <5C4B<2)

)' ! '

' '-<2< 40 = >5' 2' : A<' ! <0E& 2' < ; 42?' 59<& ! :55<& $< "9<5&
4 ; C4:B& < "5@9><E& ' ! 'Q Z =

' 0 # ,' 24' %25D$:)

<@><&)' 45' / 2 - <@9' %<5"A940<2)' "" 2-<2)' K)
/0<25@9 ; B"&)' <5@9 @9"<' B<5' / 2 - <@95' %<5" 40<2)' <5@9)' B)' <2 A)
!"44"<2)E "94& K W)
2 "<2' %<5"A940<2& 0<& 45!<0)' K Y K)
4A 0B 2<"0< '6B B ; <)' <G:<' 5" N:<)' 05)' DG DD 2)
R8 55C< -< &)'G 2)' < G<@95<0B<' / 2 - 2' / 4"94 24' :2B'B<5' / 2 -5'6< ; <'
G 2' %<5"A940<2' ; "'B< ;' / B20-' ' <B @9'G 2' %: ""< ; C< -)' K)
!C ; C<@>& ')')' G 2)' 4 5"<00:2-<2' 4:5' ; < 2< ; ' (<C<2' :2B' 4:5' ; < 2< ' ^< ")'
2:5= @>)' K Z)
9 ; ; <& ')' <' 22< <2' ^:5"!2B<' B<5' / : 5"<2"9: ; 5' 422 G<' : 2"<' B<'
42a B5@9 =<5"A985@9<2' < 5 94 ")' 'G 05)' 42 G<'42B' (< Aa -)' K W)'
%<5"A940<& 0<' ?4: ; <'B<& 6B B ; <' : 24A4 "<& 54' : & 5<5'1G 5'<"'5<5' ; 2 5" <5&
A4' :2'"< ; 2' <:04 <)' $4 5)' K)

' '"9<' < ; 5' '6< ; <' 24A=" <'42B' :' 455<' (<5' 5' < <5E ' ! '
Q =# ' '"9 5<' <:-2 "& 'Q =' > ' " '& /# . ' "+' 405'
Q =' ' " ' , ///

' ' 1' , 3' 4' ' ,

<@><&)' 45' 559<] -"9: ; ' <"-)' "" 2-<2)' K YY)
!B ; B"&)' (<' 42B B:@9B' B<' < -' K K E)' $4 5)' KW U)
! @2"& 6)' 6& ! 4 ; ; 0:2-'B< ' <5<"a<' :2B' < B2:2-<2' =<0@9<' 2' B<2'<9< ; 40 -<2'
< a -"9 ; < ; '6 0 @9& 0<G<' :2B' < -& :2B' ;' G ; 40 -<2' 559< a -"9: ; '
< -'< -42-<2'5 2B)' c55<0B)' K K)

' '"9<' < ; 5' ' <:-2 "' 42B' "9<' = >5' ' <B< < & ' Q =' '
" '/# .

" ' % ' $ I 3

0A<2&6)' !)' 42)' <5@9 @9"<' B<!' 42> 5@9<2' 9< 2: < 5.' =45' <5' =4 ' :2B' =45' <5'
' "a"' 5"')' 'G 05)' 0 -2<)' K)
; 425& /)')' ')& :""B 42 <05& & G 2& 42BC:@9' B<' ' : ' B <' > 2 -0)'
A?<:54' 9< 2A G 2a<2' G< >:2B -"B2' <5<"a<& < B2:2-<2' :2B' <- < ; 2-5'
C<5@90 55<'4:5'B< ' ^< '" B< ' ' < ; B9< 5@94 "& 0 -2<)' K Z)

)'6)'4)' X)')'X)

K

' "

' $! (' %)

) $ #' !)

-:< <5 6 58') C5< G4@ 2<5 5 C <' 04' 9 5" 4' B<' 04' :< 4' B<' 5A424)
(2B 2) K W)
5"4B 5 B<' 04' -42 a4" 2' <' < a4' B<' 0 5' 6< @ " 5' 5A4 0 0<5) 2 2)E 4B B)
K)
' <' <2< 40) 5" <' B<' 04' :< <' B<' 04' $B2 2520<H c ' $4 "<) K Y)
6 " B42) 4 5940 B)) B ; <5' ; 0 "4 <5' 5 : '04' :< <' BJ 5A4-2<) $4 "<) K WW)
(2B 2B< ?& 94 0<5& 4 N:"<') 4 4" ?<' ' "9<' $<2 25:04 ' %4 & K K)
(2B 2) K W)
B ; <5' 52 ' 04' :< <' BJ 5A4-2<' <B)) B<' <4:@94 ; AE& A : ' G "<& ' 59 "
24 4" G<5' C?' ' <2@9' 42B' !A42 59' <?< = "2<55<5.' 45"<& C< ; 2<4:& 2" < 45&
:9<5 ; <& <B<(' / 0 & <"@) $4 5) K U)
8< & <2< 40 ! ' % 00 4 ;) 5" ?' ' "9<' %4 ' 2' "9<' $<2 25:04' 42B' "9<' !B:"9'
' ' 42@<& K Y KZ) (2B 2) K)
4B"& B<& 28C"<9 A) 4 ; <5' 9"<" N:<5' 5 : '04' BG 02" 2' B 5A4-2<) $4 5)
K K)
!@9<A<0< & 0 2<0) <5@9 @9"<' B< ' <G 0:" 2' !A42 <2 !:2B' $ ":-405) < 0 2)
K)
!:@9<"& 4 59 ' (:5' 4C B) B ; <5' 5: ' 5<5' 4 ; A4-2<5' <2' 5A4-2<&
K KZ) $4 5) K W) r
! :"9<?&) 5" ?' '"9<' $<2 25:04 ' %4) ' G "<) (2B 2) K)
<2 & 2B<' B<) 5" 4' B<0 (<G42"4 ; <2" & :< 4& <'" <G 0:" 2' B<' 5A 8)
$4 5) K)
' ' "9<' <5A 2B<2@<' ' 4A 0< 2' 42B' ' 6 5<A9' 24A4 "<& 42B' "9<' 5
A4"@9<5 '% 0 2-" 2& ' '6 % 4+

1

4""?& 4A"4 2') 4 ; ' t' ' "9<' %<5"< 2' $? <2<<5' 42B' ! :"9' ' ' 42@<)
(C2B ""j K)
<0 ; 45& 4 ' 6) 6 : ; 4:a' B<5' ! 8<5' 40"5' <'" 5 :"<225' A4 ' 0<5' ' 4284"<' B425' 04'
$<2 25:0<& K KZ ' $4 5) K) 0
4C400< & (<:"<242" 0 2<0) (<5' B< <25<5' B<' !4 4- 55<' K ' <'" K W) $4 5)
* K K)
@G400 5& $<B) 5: A4" 2' '"9<' =2' ' !A4 2) (2B 2) K)
9 :8 4 4&) 25 B< 4" 25' 5: '0<5' @4 ; A4-2<5' B:' 4 8@940 ! :@9<"& <'" 04' C4"4 00<
B<' :0 :5<) $4 5) K Z)

) X) Z 3

A M ! + J

S 5" 4 2G< "R ; 8 2 : "<5 e "9< : " 2N : ? 2 (2B 2 K
4- 4G< 0 2< (4 4 ; A4-2 B< $ % : -40 K K KK $4 5 KW
! "4A"4 2 %
<4" 5< 2 "9< B< <2@< $ " : -40 (2B 2 K KK
: G 2 ! 8 4 B : "(8 : ; 40 B<5 <A< 4" 25 B< ; << B< 4"40 -2<
K W % 5 K K)
6 2<5 0 2< 6 6 : 240 "9< < <-<5 @4 <B 2 2 ! A : 2 K KK KZ (2B 2)
K Y
3 < 2<5 <5 <B 45 (2B 2 K W)
(4 : < 0 2B K ; <5 5 : 0<5 4 ; A4-2<5 B< 4"40 -2< K KZ $4 5)
?
(4 ; 4 < 0 2< ! B-<5 <" B6 925<5 B< 4B4 a <"@ K KK K $4 5 K U
(4AB2< 4A"4 2 2N :<" B< J 2B40 : 5 < K K KK $4 5 K)
3 4 ; A4-2<B< K K KZ 5 : J 9 < 0<5 $A<2B<5 <" 04 4 22< $4 5 K Z
(<2 C0< $ (<5 A< 4" 25 ; 0 "4 <5 B : 4 <@940 ! : 0" <2 K W $4 5 K K
4?2< 4 42B < A"5 : : 4 ; A4 -2 ' "9< " ?40 (: 5 "42 42 (<8 2
(2B 2 K K)
< 64 ; <5 4 4" G< ' "9< B2A4 -2 ' ! ' 6 92 < 2 ! A4 2 K W
(2B 2 K W)
!" "9< "4A"4 2 % 4 ; A4 -25 8K W 0 ((2B 2 K K)
4@42 4 ' ! " 4B<00< 4 ; A4-2<B<-8 "40 42 2 ! A4-24 K KZ ' 0 <2@<)
K Y

54 0 ! ! 6 :)

4 >9 ! : 5<2 4-<9 : <9 < 2<5 9< 2922B5 a < 5 K KZ % <5C4B<2
KW)
04><2<? 4A"4 2 ' C ? 2 "9< $<2 25 : 04 ' % 4 K K (2B 2 K W
42B") : 5 B< ; ' 08<C<2 B<5 <2< 405 B "<B C? "0 ' G 2 42B" : " m
C - 4A9 @40) < 0 2 K Y)
42C : ? 0B2<0 < ; 2 5@<2@<5 ' 4 <" < 42 (2B 2 K K)
: - ?2< 4 5940 ! ' 6) 0 <' 42B <5A 2B<2@< B "<B C? 2)
% """<50<?) 05 (2B 2 K Y)
5"<00 BG<2" : <5 ' 4 ! 0B < K K KU (2B 2 K ZK)
' 42" 2 B<5 B 4 B5 <2< 40 ( ) ' 6 : 240 K 8 $4 5 K WU)
0< - <G) 9< ! : C40" < 2 : " C - 4A9 @56) B 2C : - 9 K U
; ; 4 5940 ! ' %) (<""< 5 <2B 6 : 2405 KYWW K K) (2B 2 K K
22<G 00< 0 2< ! : G<2 5 0 "5B <5 $4 5 K YU)
4""42 % BG<2""A <5 = "9 "9< 224 : - 9" 42 - < 5 K W KZ (2B 2 KW
4=>< 0) 6 : 240 ' "9< 4 ; A4 -2 ' K W ' (2B 2 K K)
64@ C % (<""< 5 2 ; ' "9< ! : "9 ! A4 2 K W K) (2B 2 K KK)
/ 2@4 B ! ' 6 BG<2" : <5 2 "9< 0< 8-4B< (2B 2 K Z
04 A<2" ' $ G4" < 6 : 240 4" <4B c : 4 "< 5 K K KZ (2B 2 K UZ
0 <: 2< <2< 40 4 2 B ; <! $4 5 K W
(< ; 22 < <04 55< <4"<2229ZY 0 : 8 6 4 ; A4-2<5 <" ! : G<2 5 K K KU
4G < K U)
- ! " 6 : " C - 4A9? (2B 2 K K)
< ! ' 6 4 ? B "<B C? ! ' 6 $ 4 : @< (2B 2 K W Z)
4A < !) 4 0? ; 0 "4 ? 0 < e 2" C - 4A9 @40) B "<B C? %)
4A < (2B 2 K Z)
4?0 <5 4A" : 2 B ; "<5 5 : 04 : < <B J 5A4-2< K KK $4 5 J K KY
$4 N : 2 ; ; 42B42" ! : G<2 5 <" 4 ; A4-2<5 $4 5 K W 8
$ @" 2 ! < ; 5 B "<B C? 8C 25 2 (2B 2 K U)
@@4 4A"4 2 < ; 5 K K $4 5 K KZ f
G< <4 0 2<0 ' B< B ; <5 B@ "5 A4 ' 0 : ; < ; < < 2< K Z)

!" 94 ; 4258 <2< 40) 8 ; <5) ' 5) K1W)
; > 25 2 (< : "<244" 0 2<0 %) 4 ? 'Z 4G40 ? @< K W KU) (2B 2)
K WZ)
' "9< < ; 5 <"@) ' B ?4 C "4 455824 : 4"4 5<< ! '
Q% = ' "9 5< '" B< 0B0 " ! <24 ?4 42B YE9 8C4 :0"H ' Q ' '
" / # . #

2) (% / !)

"<@9< ?' <4 <2< 40 6 5B) : < 4' B '04' 2B<A<2B<2 4) K ' G 05) 4B B)
K KW)
940C 42B4 0 2<0) (<5 ' 42 4 5 <2' 5A4-2<) : 5) K Z)
B 24 B4 2B< B<) 5" 4' -42 @4' B< 045 ; 45 B< 2 42"< 4' ?' 49400 24'
5A42 045) 4B B) K UK)
(< "9 4?4 4) 4 4" G< '"9< $<2 25 :04 ' %4) (2B 2) K K)
; 42) %)) 5" ?' '"9< $<2 25 :04 ' %4 4 05 4 2) B) KW Z)
! 42 ! ; !) '6 5< B4' (: a) 5" 4' B4' : 4' < ; ' $ " : 8' KW G 05) (5C 2)
K W)

!$ ") '

404-2?4 ; ; 42B42") 4 ; A4-2< B< J ; A< <: ' 4A 0< 2' <2' 5A4- : <) ' <2@ '
!"4 ' 5" ?)E ' G 05) $4 5) KW Z)
<4 ; 594) () 5" ?' '"9< / 2 -J5' < ; 42' (<- 2) (2B 2) K Z Y)
4C42?4) !") 4 (4' 4A " :04" 2' B< 4?0<2) $4 5) KW)
B< @4 (<2"<242"0 0 2B4 (4' 4A " :04" 2' B< 4?0<2) $4 5) KW)
3 3 ' 4 ; A4-2< B :' 4 <@940 ! :0" B425 0<5' $? <2<<5) $4 5) K WZ)
>8' ! '%)) 5" ?' '"9< 0< -4B<) 0 2B 2) K YY)
5 ; 4 4A"4 2' %) !4 5" @40 <@ B' '"9< U 2B' <- ; <2") (2B 2) K)
"<2D4 0 <: "<242" 0 2<0) (< B2B 40 : A 2" <" 04' 4A " :04" 2' B< 4?0<2.'
:2< < <: 'C 5" N :<) G 05) ' :" 4 :D 5 : 0) ! < 2<4 KW)

63 O2 6O

4 : : B4 <2< 40) 42 : B' 42B' 9 5' (-9" G 5 2 4 C?') 4 : : B) (2B 2 4
2) B)
: -045 ! ' =4 B) (<' C?' !) %) ' :00 ;) (2B 2) K)
' ?4 Z2Z 404 <' ; 0 "4 <' B :) ?' ; ; 42B42") B' B< B ; ' 45<B' 2'
' ?)5 < ; 42B4)E $4 5) KW)
K4 =042B4 (B) (<' C?') ! B2<?) (2B 2) K ZU)
: 4"4 0 <: "<242" B< J< ; A< <: '<2' 9A4-2<) ?' ; "<) : 4") $4 5) K WY)
!<4" 2 (B) 0 <4 C?')) < ! ; "9) (2B 2) KW)
G 42 0 @94 B' (B) < ; 4 C?') G 42) (2B 2) K WY)
%9 "" 2 4 ; 4 ! ' !)) ') < ; 4 C?' ') %9 "" 2 -94 ;) (2B 2) K)

7 8 9 ! > ? ' @ 5

' ! ' '' ! !)

)' $ 0 ;)

(0A 42B)' 8?"' / 5"40 -4' G5< ; ' "B<02?" '5 @9 2<2 " 44'A 'K Y '- B' C' "<@9<5"G<2 '
2 ' 2?' K K ' - 0:)' j C2B')' $)' (A " B)' h 2' <554?' " =4 B5' 4' @4"40 -- <'
'400' 5<A4 4"<0?' A: C0 59<B' = >5' 2' "9<' 4" 8' %4 ' 'K K (B =2' " ' "9<'
?<4 'K Y ' 9"< 4' G' ; A)' C5@9<5"G<' 5" ' ' $ <G2 5"< ' 55 5> >9' A '
5> G5> ; ' 2 G< 5 "<"<(K8Z(>2)' 2F K YBH>2)' ;)E
/)' <25> ("<@9<5"?<221 4' < 25' ' G 0/H 5 G5> 2' 5 C 42 ')' / 9)' / 0 B<<G4)'
9<' 4" 240 %4 (2'"9<' / 0 B<<G'@ 00<@" 2'4'" G C 55 '=)E' !'"$<"< 5C: -(
KW Z)' <22 ' ! C ; >(KW Z( )')E
!<<' : "9< ' : 2B< ' "9<' 24 ; <5' ' -B42 G @9(: C G 2(4B4 : <0((4C<4 : B 8(
!>: -4 <G5>)

)' $ #' !)

; ; "G5)

: ; 4- ("2 5 45@9 45 5' B ' "<@9<5"G<22 ' 2?' K K ' - B4(5 C 422? 4' ' aB42 '
2? 4' $)')' ! @9 : > 2? ;)' @: ; <2"5' <04" 2-F " ' "9<' 4" 240 %4 ' 'K K (
@ 00<@"<B' 42B' A G4"<0?' 55: <B' C?' $)' 6)' ! @9 : > 2)E' $4 "5' G)' 5@ = '
K WY KW)
4 "<' B<' 04' : 55 <' < : A<<2A<(" 4B: "<' <'" - 4G<<' A4 ' B <' B : ' : G< ; < ; <2'" 42'
<A '" B2B 40' B<' 04' : < <' <2')K K (K K (<'" K KZ(BJ4A <5' 04' 4 "<' : 55<(<2'
K Z' <: 00<5)' $4 5)' K KZ)
4 - : < 2(; ; 42B42")' 4 ; A4-2<' B<' : 55 <($; 2 < <' $4 " <:' $ < ; 24 <5'
B<' 04' " A4-2<' B<' : 55 <(5<5' 8 : 5<5' 5(54' $ <A4 4" 28' -42 54" 2' B<' J422<<(
B : ' K' 642G < ' K K ' 4 : ' K' 642G < ' K K)' ' <2@9' ! "4 ' 5" ?)E' 05)' :)'
$4 5)' K W KW)
4"< 40?' <22 H @9<" : 8' >9 G4' 04G24 - ' ! 9"4C4)' 2E' "<@9<5"G<224 4' 24'
K K ' - B4)' 4"< 4 ; ' ; ' "9<' 5@ <2" @' K' @9 G<5' ' "9<' <2< 40' ! "4 '
4'" ! '" $<"< 5C:)' E' 9<' 4" 240 %4 ' 'K K)E' $4 '" (05)' G)'
! '" $<"< 5C: -(KW)' $4 '" (0)')' C B)' KW)
(<' 2 "<: ' 2 G< 5<L')' (6<: B (W @")' K K (<'" 42B<' ; B<(: 00<" 25'
DD E)

2: 25(2 !$ 22@ (

4: 55<"(()' ')' 6)' B<(B ; <5' 42<@B " N: <5' 5: ' 2"B <: ' B: ' $404 5' <'" 5: ' N2<0 '
N: <5' BGB2<; <25' B<' J ; A <' B<A2 5' K ' : 5N: J4: ' K' ; 4 ' K KZ(A : ' 5< G ' '
$9 5" <' B<' <80B)' ?' ()' ')' 6)' B<' 4: 55<"(2@ <2' $ B <'" B: ' 40: 5
; A< 4 (' 9' 2)' $4 5)' K Y)

]

&0< 4 2) ! :G<2 5 BJ:2 B A0 ;4"<) (4 $ 0 2< K KK K E) $4 5) K Z
: - -2<&) B ; <55: 04 4 ; A4-2< B< N58 0 K!) 4<2<<22<5) K U)
8 ; <5 B: ! < -<2" : - -2<) B "<B C? $4:0 B"" 2) $4 5) K W)
: - 2-& ! :G<2 5 ; 0"4 <5 B: 4 2 B KYWK K K) B "<B C? 4 2 $ < <
B< 4 - 2-) $4 5) K WY)
45"<0042<& 6 : 8 B: ; 4 B@C40 B<& K Z)& (& K Z) $4 K WU)
:C G 2&) "<@9<5"G<224 4 24 G A 5 ; 4>9 5 G <2 <22 > G K K K -)-)E)
9< 4" 240 %84 2 @ 2" :A< 4 ? < <5A ; B<2<<)E (D: 2 ^4A 5 >
; A) >4B< ; 4:>)E !" $<"< 5C: -) K) C0 - 4A9?)E
:-<2 G 2 %: ""< ; C< -& < ; <2 B<5 < a -5) $4 "5 *) 42> C " 2 B<)
K)
'42" 2 B<5 B 4 B5&6 : 240 B: -<2< 4 (" "4A<5 BJ:2 @ < B< 04 42B< ; 8
K) $4 5) K W)
/94 ><G @9&) K K - B G B2<G2 >4>9& a4A 5>4>9 G 5A ; 242 4>9 5 G < ; <22 > G)
9< ?<4 K K & 2 B 4 <5& ; < ; 5& 42B < ; 2 5@<2@<5 " 2"< ; A 4 <5)E
?A) & 5 5"4G 0) /94 ><G @9) 024) KW 4"< 40? <2A @9<248
>9 G4 04G24- ! 9"4C4E) ?A& 2) c24) KW)
(: -< 2& ()))& ; "< B<) < ; < <5) 4 ; A4-2C5 @0< K K K KZ B)
()) ' 4C ?E) $4 5) KW)
(5aC< -& <2< 8 (<: "<242" G 2) 8< 2 B < < ; 4"9 -<5@9 <C<2 =!9 ; B
B<5 ' <0Ba: -<5 K K 2 :55042B) 455<0) K ZZ)
4 2- 2Z& ()6) 22<" B<) 4 ; A4-2<5 B< :55 < <" B< !4D< K K K E) ' 4- ; <2"50
B< B ; <5 2BB "5) % "9 A < 4@< C? B 0A9< 4-24) $4 5) K 8)
'<? :55<& < ; 40 <" @9 G<5 B<)0< 4 2& K cW K) 4 @455C22<) K W)
' 2 B<5 (@9<5&)) ' B<5 @4 ; A4-2<5 KYW K K E) "<5 <" <5A 2B42@<)
B "<B C? 4: @< 9 A 2 42B (< 2@< $ 2-4: B) $4 5) K)
' : C 5N: <& 0< G @ ; "< B<) (<"" <5 5: 04 - : < < B< :55 < <2 K K & 5: 04 G 00< B<
!" $B"< 5C : -& 0<5 ; @<: 5 <" 0<5 :54-<5 B<5 94C "425 B< 04 :55 < <" B< 04
$ 0 8<) B "8 C? 0< G @ ; "< B< $) 8 5) K K)
5& ""<)) () G 2) 4A 649 4:5 ; < 2< ; ' (<C<2& B< < 5< G 2 B<2
=<5" @9<2 < ; B< 24: 42 B < 4 4& 5BB0 @9 G 2 5>G4& : $B a: @> 42
B < < <5 24& ; " B< - 55<2 ; <B 4A 0< 25& 92 649 < K K) !" $<"< 5m
C: -) K)
! 0"?>& @ ; "< ; 42) 4A 0B 2 <2 K K & B ; <5 9 5" N: <5 <" ; 0"4 <5)
A425) K)
!"< 2 ; 00< & 6 5<A9) 4-<CN@9 cC< 5< 2< < 0249 ; < 4 ; : 55 5@9<2 ' <0Ba: -<
K K & B "<B C? / % 0B) < B<0C< -) KW Y)
!:@> =& / G 2) :5 ; < 2< ; ! 0B4"<20<C5 ;) !": ""-"2" K) ' <2@9 " 4250)
<2" "0<B& J0<24 4 5@ :& $4 "5) KW K)
!2 ""-:<5& J4CC<) (<"" <5 5: J 2@<2B < B< 5@ :& <@ "<5 B< @<""< G 00<& 49
) $) :G<"& B< 04 @ ; A4-2 < B< 6B5:5& A4 J4CCB ! : : - :<5& "B ; 2 @:04 <
<"@: B B< J<-0 5< B< !4 2" (: 5 5@ :))!<@ 2B <B2) $4 5) K)
@9 "<94- & B ; <5 2BB "5 B< J4 ; 40) 4 ; A4-2<5 B< 04 :55 < <2 K K ' @<2" <
04 : N: <& K :" @9<& <" 04 ' 42@<) < 0 2) K) &
9 2 B< <"aE& : - :5"<) ! :G<2 5 ; 0"4 <5 K Y K E) $4 5) K W)
% 0a -<2& < ; <2 B<5 > 2 -0) A <:55) <2< 405 (: B= - ' < 9< 2 G 2 K Y KZ
2 :55 5@9<2 <2!"<2E) (< A" -) K K)
!4A5>) $) #< ; 0 G4) < ; 5) $) #< ; 0 G)E 9) & K K K) 5@ =)
K U)
' "9< <5A 2B<2@< 4A 0< 2 -<2< 40& G (DD G ; 0"4 ?& G 0) G ; E&
"9< < ; 5& <"@)& <4:94 ; 4 5& 6< ; < 24A4 "< 25"42"& a4 " ?5> &
4G :"& : ; 45& 'Ba<254@& :G 2 !" ? & 4 C "& - 25> & 4AA& 00& '
! Q =

& X)

3

!

< " 28' < -<5)' (4' 4 ; A4-8<' B<' K K (B 4A 8' B<5' "B ; 25' @:04 <5)' $4 5)' K W)
94 ; C 4?(' 4 N4 5'B<)' 5" B <' B J DA8B " ""' B< :55 <)' :G <5(<B2)' K(K F <B4)')' 05)' 2)' = 5)' K 8)' d
0425<? "<(<2< 40')' G 2)' 4 ' ' <0Ba: -' G 2' K K ' 2' 2550: B)' 2"< 0455<2<' %< >< (<B2)' U' ('G2)E' 0 2)' K 8)
<22 <<(0<' 4 2)' " 2< 4 @<' B<' ' 2"A8 <: ' 2A 0< 2' A<2B42"' 04' 4 ; A4-2<' B<' K K)' $4 5)' K Z)
'4C<' B2' '4: (< ;)' =4 "'< ; '0) / < C ; 4 ' 2' B ' [' ; << 4 5@940' <?E)' 4A 0< 25' '< Ba: -' 2' 2550448 2' K K (B "<B' C?' 4 ' G 2' /4:550<)' (< Aa -)' K W)
'4 2(0<' 4 2' 5<@ B"4 < 4 @9 G 5"<' " ' 4AC0< 2E)' 42:5@ "' B<' 0 : " <2" ' : a<(@ 2"<242"' 0<' A 8 5'B<5' BGB2< ; <25' B<' @<""<' 422B<)' 05)' (:)' $4 5)' K Y)
!B-: (@ ; "<' B<)' 5" <' B<' F 26 86 ' <"' B<' 04' 42B<' ; B<' A<2B42"' J422B<' K K)' $4 5)' K Z)' K "9' <B2('G 05)' $4 5)' K)' 2-0 59' " 42504" 2)' 'G 05)' (2B 2)' K)
% 05 2(! ' C< "' " 59' ; ; 55 2< ' = "9' "9<' :55 42' 4 ; ?E)' 4 4" G<' ' G<2"5 B: 2-' "9<' 2G45 2' ' :55 4' C?' 4A 0< 2' 24A4 "<' 42B' "9<' <" <4"' ' "9<' ' <2@9' ; ?' 2' K K)' B "<B' C?' 9 5' 2<A9<=' 42B' 5 2 2 04=' < C< "' 42B 0A9F' 2B' <B2)' (2B 2)' K)

6

)' ')' B<')))@9)' 42@ <2' @ < ' ' 5< G @<' B<' :55 <E)' 5" <' B<' 04' B<5" :@" 2' B<' 5@ :' <2' K K)' 4B: "' B<' 4 < ; 42B' A4 ')' <" 2)' $4 5)' K W)
94 ; C 4?(' 4 N: 5'B<)' BA 25 ' B<' 4 : "<: ' B<' J 5" <' B<' J DABB " 2' B<' :55 <' ' 04' C @9: <' B<')' 0<' ; "<' 5" ABC0A(2" " : 0B<.' (4' GB "B' 5: ' J 2@<2B <' B<' 5@ :)' $4 5)' K)
4B4 :<0( )' <04" 2' B:' 5B A ' B<5' ' 42N8' ' 5@ :' <"' B<' J 2@<2B <' B<' @<""<' G 00<' <2' K K ' A4 ' :2' 94C "42"' B<' 5@ 4(54 G <' B<' B G< 5' B @: ; <2"5' <04" 5' ' @<"' BGB2< ; <2"' ' 42 5' B !*"2(C< 40 < ' B<' ! "' (: 5gE)' $: C0 <' A4 ')' 4B4 :<0)' :55<05)' K YK)' C0 - 4A9?)E
)( ))' ( )' "B ; 2' @:04 <)' I(4G<4 :(" 2"<' B<) ' 5@ :' 4G42"' <"' 4A C5' J 2@<2B <(2' " @<' @ 2"<242"' 22<' B<5@ A" 2()B<j' BGB2< ; <2"5' N2 ' 5<' A455< <2"' A<2B42"' J 2@<2B <' <"' B<5' ; 409<: 5))))A<2B42"' 04' <" 4 "<' B<' K K)' $4 5)' K KZ
6 ; 2 ("<2< 40' $ <@ 5' A 0 " N: <' <"' ; 0 "4 <' B<5' @4 ; A4-2<5' B<' K K KZ' D" 4 "5' B<' 5<5' 5 :G<2 5 2BB "5(4G<@' :2<' 9 " <' C - 4A9 N: <(<"@)' ?' ')' (<@ ; "<)' 'G 05)' (4:5422<)' K)
$4 D9425( )' 6)' <" 4 "<' B<' 5@ :)' "<5' <@ "<5' 4 :' N: 4 " < ' B<' J<; A< <:)' <"a)' K)
$4 " :2<4: D(()' DA0 @4" 25' B<')' 0<' (<: "<242" B2< 40' ; "<(5: ' 0<' @94A " <' G ' B:' X' 0 G <' B<' J 5" <' B<' 4A 0B 2' <"' B<' 04' 42B<' ; <<(A4 ' 0<' -<2< 40' @ ; "<' B<' !8-: (<"' 5: ' 04' < :"4" 2' B:' -B:B 40' >H: -4:B)' 2B' <B " 2)' $4 5)' K)
$ 4B"( )' B<' 4 ; C4554B ' 4"' %4 54=E)' 5" <' B<' J4 ; C4554B<' B425' 0<' 42B' :@9<' B<' 4 5 G <' <2' K K)' $4 5(K K)
5" A@9 2<(0<' @ ; "<)' (4' G< "B' 5: ' J 2@<2B <' B<' 5@ :)' $4 5)' K)
! 0 - ; 4@(; 42B' B<)' (4' < < 24)' ! :G<2 ' B : 2' 5 0B4"' B<' 04' 42B<' ; <B ' (; -<5)
4:B 2@ : "( )' B<)' <04" 2' ; A4 " 40<' B:' A4554-<' B<' 04' B <a 24' A4 ' J! ; B<' 42 4 5<' <2' K K (A4 ' :2' "B ; 2' @:04 <)' $4 5)' K KZ)

$&' (' % / !)

-B42 G "@9&)' 5" 4 "<@9<5"G<2 : ' 2 'K K - B4)' 5" ?' '"9< 4" 240
%4 ' 'K K &E' 05)' I 2)' !'" $<"< 5C : -)' j)' C0 - 8A 9?)E' < ; 42'
" 42504" 2' C?')' 4 : ; -4 "<2)')< A" -)' K)
< -<& < < B')' 4A 0< 2J5' 2G45 2' ' : 55 4)' (2B 2)' K WW)
6<25<2&)' !)' 4A 0< 25' ' <0"" -' ' 255042B' K K)' 4A 0< 2J5' <4 ; A4 -2' 2'
: 55 4)E' A<294-<2)' K W)
(4C<4 : B 8 <& 6)' $)' B<)' (4' 4 ; A4-2<' B<' : 55 4' B<' K K)' $4 5)' KW)'
C0 - 4A9?)E'
5"<2 !4@><2& ' < 9< 'G 2' B<)' < ' ' <0Ba : -'G 2' K K)' < 0 2)' KW K)
% 05<0<?& 5@ : 2")' 9<' <@0 2<' 42B' ' 400' ' 4A 0< 2)' (2B 2)' K WZ)
' ' -<2< 40 = >5& 2' / : A<42' 9 5" ?' C?' ! <0' 42B' 9 < 5E& : 55 4' - '
B42 G "@9& ! @9 < ; 422E& 4A 0< 2' 42B' 0 D42B< 'K' 4" 5@9< & 42B8E& 0<D42B< ' '
! @9 0B< E& ' ! 'Q =

1

" : "9& ' < 9< 'G 2)' <' ! @904@9"C< ' B 2 '4 ; 'Y)' ! <A"< ; C< 'K K)' 4 C : -)'
K Y)
'4C ?&)' 4 ; A4-2<' B<' : 55 4' K K E' ' <2 9' !"4 ' 5" ?)E' U'G 05)' $4 5)'
KW)
/ 94 ><G @9&)' K K '-)' < <a 24)' <22 05" @9<5> <' a50<B G42 <)' '5" : B?'
2' "9<' 5@ <2" @' 9 5" ?' ' %4)E' '" $<"< 5C : -)' K W)
/ 94 ><G @9&)' 24' K K '- B4' '" ; 2424' B ' ! ; 0<25>4)' 9<' %4 ' 'K K '
: ' "9<' < ; <2' " ' ! ; 0<25>)E' 024)' (KW K)
2B<24 : & G 2)' <' < <a 24' <C< -42-' B<5' / 4 5< 5' 4A 0< 2' : 2"<' C<5 2B< <'
< : @>5 @9" - : 2-' B ' 9< 02 ; <' B<' C4B 5@9<2' ; AA<2)' 2' " 4-)'
< 0 2)' K W)
$ A & &)' 5>G4' 'K K '- B :)' ' 42"a : a?' G' 5>G<' G' K K '- B :)' 5@ ='
2' "9<' ?<4 ' K K)' 9<' ' <2@9' 2' 5@ =)E' : 55> ' >9 G)' 5@ =)'
K YU)
!>4 C<9& ')' a < <' X <" 5"=4' %4 5a4=5> <- ' A a<a' ' ?B< ?>4' !>4 C>4)' 5" ?'
' "9<' : @9?' ' %4 54=)E' 05& & ' $ 5<2)' K W)
!> -4 <G5>)' K 0 ' B' " 24@9404' G 2?' B ' ! ; 0<25>4' G>0 ""@9 "<02)' 9<'
?<4 ' K K & ;' "9<' C<- 22 2-' " ' ! ; 0<25>& 2@0 : 5 G<)E' / 4a42)' K W)'
C0 - 4A9?)E'
a<2 & 8"5@9)' %< '94 ' 5>42' ;' 649 <' K K ' 2' 42B' -<5"<@>"g' < 0 2)'
KW)

$

' "

% $ ' 7 ' 1 ' ' +

)

5@9 ' C0 - 4A9 < B< ' B< : "5@0 <2 <- ; <2"5 ' : 2B 4"4 00 25 <5@ @ "<2)
< 0 2) KW U)
' C0 - 5A9 < B< ' 42aB85@9<2 ; AA<2 - <5@C <0 "<2) < 0 2) KW)
/ 4"40R8 B< ' C0 "9<> B<!' >- (' A < : 5B5@9<2 - 55<2 <2< 405"4C5) < 0 2) K Y)
! : AA0< ; <2"5) K Z K W)
<A< " : ; ' B< ' 2<2<"<2 2<-5 - <5@ @9"<) 0B<2 % -) KW)
' ' $ 90< ' C0) 9 5" ; 0 ") ' 2E << ! 'Q =

) $ # !)

=2 0 !)

' 4 2 4 2 '] # ') 4225< " B< JC2 K K @ 2"<242"0< A B@ 5 B<< BGB2< ; <2"5 B<
@<""< 422B< A) 5) B J9 5" < B< < ; A< < : ' 4A88 2) ' G 05) $4 5) K Z)
' 4225< " B< K KZ) $40 5) K K
<@ : < 0 B<5 B <5 B< ; : G< ; <2"A @04 ; 4" 25 <"C200<" 25 B< !) ') 94 0<56<42
$ 2@< ?40 B< ! : CB< @ ; ; 42B42" <2 @9< ' B< J42 : B< @ ; C 2B< B2 B B<
J 00< ; 4 - 2< <2 K K ' <" K KZ) ! " @>9 92) K)
! <?B0 "a) ') G 2) 4 - <C : @9 B<5 >B2 - (' $ <255) ; << / A5 : 2"< ' < <90 B<5
<2< 400< "242"5 G 2 # > ; ' ' B Ba : - < K K) < 0 2 49B $<5 ;) K)
' ' 4 "<25) <4" <5 ! "< ; J5 b >"<25" >< \' ' ! 'Q =

2 ' ' ! $;)

4 - 2<"") (< - <24B < ' B< J 0< BJ 0C<) ! : G<2 5 B< K KZ <" K KU) ' G "<)
$4 5) K)
@><) G 2) / <- < 0<C<2 K KU) 4@9 B<55<2 1 < @92 : 2 - <2 C<4 C< "<"
G 2 (<5a@a?25>) < 0 2) K)
0 ; C) G 2) 0 : @9< ' 2 < <2 K K U) < 0 2) K Y)
' 25 B< ; ' 4 - <C : @9< B<5 "" ; < 5"< 5 G 2 0 ; C) ! " < 1 : - < K K ' 92B K KZ)
< 0 2) K UZ)
42 0<=5>?)) <2>= c B -> ; "<2 425 B< ; ' / B - < K K) (< Aa -) K Y)
42>< / 4 0 G 2 >) >) C< 5") 22< ; 2 - <2 < 2<5 5"< < @9 5@9<2 a < 5 4 : 5<
B< ; ' / <-5 49 < K K) 4@9 < 2< ; ' ; ' >) >) (<-54 <9 G G 0 82B<2'
42 : 5> A" C<4 C< "<" K WW)
4 : 55 2G 00< "< B<) 5 <22<55< K KZ) ! : G<2 5) $4 5) K U)

<00< (') G 2) '<0B ; 4 5@9400 4 4B<"<>?) 4@>' <+<2<2' >"4"<2) !": ""m
-4 "' K U)
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2422 94AA: 5( ) G 2) 4' 24@9-<0455<2<' / <5A 2B 4a' a 5@9<2' < a -'
: -<2' G 2' % : ""< ; C< -' : 2B' B< ; ' 9< ' 5< 2<5' !"4C<5' =49 <2B' B< ' <-5 49 <'
K K ' 42B' K KZ(B< ; ' B4 ; 40 -<2' C< 5"<2' G 2' ; 422) 4225"4"' K)
Z ; 2( )) B<) <5A 2B42@<' <2" <' 0<' -82B 40]# <"0<' -<2< 40 !4 4a 2' 5: '04'
@4 ; A4-2<' B<' K K) $4 5) K KY)
/ B 5< 0 2->(4) 22< : 2-' 4:5' B< ' <-5a< "' K) C"< 022-' B< ' !" < 1 c-<'
9 <0 ; 4225) < 0 2) K ZY)
/ @9(6)) ') < ; <5' A : '5< G ' ' 09 5" <' B<' 04' @4 ; A4-2<' ZC' K KZ) I' G 05)
$4 5) K KW)
(42-< 2(B ; <5' B<(-Z2B 40 BJ 2 .' @4 ; A4-2<5' B<' K K (K K (K KZ) B "<B'
C?) ' 4C ?E) $4 5) KW)
0G 2B< 5(<2>= : B -><"<2) 82<5) < 4 : 5-<-<C : 4' G 2' ' <B) ? :' ! ; ""'
(< Aa -' 42B' < B<0C< -) K U (
<@< 2(0 2<0 04"<' 4 B8< @4 ; A' " '6 4@9 ; ' B 4"(/ 2-' ' 4A0<5E) < ; 5'
'9 5'0 <' 42B' 8G<2" : <5) (2B 2) K)
4 = "a(:5' B< ; ' 4@90455' Z<5' <2< 40 G 2' B< ;) < 0 2) K U)
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0))E < 0 2) K)
: ! 2-(' < 9< 'G 2) :5' ; < 2< ; ' (<C<2(< 0 2) K UU)
: 90( ) <2>= 1 B -><"<2' B<5' ' < 9<? ; ' G 2' ! @9 ! <) 6# a9< 22' K Z)
4"a ; < ( )) G 2) 25' B< ; ' (<C<2' B<5' <2< 405' B2 -' G 2' 4"a ; <) < 0 2)
K Y)
AA 0B(') 22< : 2- ; "' 4 5' B< ; ' (<C<2' B<5' ' 8B ; 4 5@94005') G 2' ?<2)
(' ' (< Aa -) K W)
5" a(45' 4-<C : @9' B<5' <2< 405' G 2) ! G 05) < 0 2) K Z U(
4B8>?(4 (<2>5@9 <2' ; 0 "4 A 0 " 5@C<2' 2940"5' 4 : 5' B< ; ' 9<2B5@9 C'
0 @9 ' 4@90455' B<5' >) >) U5" < @9 *B 8' ' <0B ; 4 5@94005) : -5C : -) K U '
3 ' 22< 42-<2' 4 : 5' B 8 ' (<C ; ' B<5' ' <0B ; 4 5@94005' 4 <2) 2<' ! <0C5 '
C : - 4A9 <) ""9< 0 : 2-<2' B<5' >) >(/ <-54 @ G5) "E' K Y)
4 :"2< ( ) G 2) 22< : 2-<2' 4 : 5' B<2' 649 <2' K K K KZ' !": ""-4 "' 6 U)
!< @9<(< ; <2' B<5' <2< c5' (: B= -' G 2) B "<B' C?' % -0"a <2) (< Aa -) K UY)
!@90 55C< -< ( ) G 2) $ 0 " 5@9<' : 2B' ; 0 " " 5@9<' <5A 2B<2 !' 2 -5' ' <B @9'
) G 2' % ""< ; C< -' ; "' / 4 5< ' 4A 0< 2' K) !": ""-4 "' K W)
!<2 "(; "<' B<) B ; <5' K 0 E) (B0Aa+) K)
!"< <25( ) % 45' @9' < 0<C0<) K 'G 05) <504 :) K Z Z'
9 <0<2(' ') : ; < : 2- ; ' 4 : 5' B< ; ' / "8 <C<2' < 2<!' U9 -<2' <"< 42<:'
B< ' 5"< < @9 5@9 ; "' ; <<) <224) K)
0 05 4(<2< 40 ! ' (\K) $ G4"<' B 4 ?' " 4G<05(A< 5 240 5< G @<5' 42B' A2C0 <'
<G<2"5 B : 2-' ; 55 <2' 42B' ; 28 ? ; < : ' = "9' "9<' : A<42' 4 ; <5' 2' "9<' @4 ; m
A4 -25' 'K K Z' (2B 2) K K)
% 0a -<2( ) G 2(< ; <2' B<5' <2< 408' (' G 2' % 0a -<2) (< Aa -) K UK)
% 0 ""< ; C<@-( ) /) $) ((< a -' G 2(< ; <2) B "<B' C?' C<) ' 42>m
: "' 4)) K)

' ' "9<' <8 2B<2@<' Z' 4A < 2' ; 4B' 4G 2"("94"' ' ' <B) % 00 4 ; ' 42B'
c : <<2' (: 54' = "9' 0<D42B< ' K("9<' < ; 5' ' : <22<' 2' 4A 0< 2E(
'<a<254@(C2' "' 9(4 B8C< -(6 ; 2' 2' 4A 0< 2E(4@B 240B(4 '
2 2"(<""< ; @9(2"-<055(! @9 = 4 a<2C< -(00(4 ; 94-<2' G 2' 25<(' !
Q O f;' ' '"9 5<' ' 8 : 04 2@ 2 "('Q % ' " '](' .

' G0)

2 89< 598 (B) < ; '"9< A< 4" 25 '"9< 400 <B 4 ; <5 : 2B< ! @9=4 a<2 C< 8 42B 0 @9< B : 2-"9< 04""< <2B) 'K K) (2B 2. K) ; 422) G 2)E) < ! @904@9" C< (< Aa -) $ 5<2) K) 642) <2>= : B ->< "<2 B< - 55<2 0><2 : 2B < < 22-5 ! @904@9" C< (< Aa - K K) (< Aa -) K Z) & 6 ; 2))(4 2 B<) 4C0<4 : B< 04 4 ; A4-2< B 4 : " ; 2< B< K K) $4 5) K Kg) <A0 N : < B : @ 0 2<0 6) (B (2B 2B< ? 5 : 0<5 BGB2< ; <2"5 B< 04 @4 ; A4-2< B< <5B< <2 K K) 2) A) 2) B) (< 294 B")) < 2< 0<C2 55 G 22B =49 82B B< ! @904 9" C< (< Aa -) (< Aa -) K UZ) I : 0 2-) G 2 %) 4A 0< 25 !" 4"<- < 92 6 49 < K K G 2 B< ! @904@9" G 2 55 5@9<2 C 5 a2 ! @904@9" G 2 (< Aa -) < 0 2) K Y) C5" e) < - 2-< a : 0><5@904@9" C< (< Aa -) !4 ; ; 0 : 2- G 2 < @C"<2 0 : @9< 5 G ; Z) C 5 K) >") K K) """< <0B) K W) B<0<C<2 ' < 9<)) G 2) 4A 0< ; ! ' BBa : - 2 ! 4@95<2 ; 649 < K K) <5B<2 42B (< Aa -) K K K Z) <04" 2 C< B < < -2 55< C< 424 : W) @") I 0) G) K K) <224) K KZ)

A ! B ? # K KZ)

< " 2) (4 @4 ; A4-2< B< K KZ B 4A <5 B<5 "< ; 25 @ : 04 <5) $4 5) K Wg) $ 25) <04 C4"4 < <" B< 04 @4A " : 04" 2 B< $4 5 K KZ) $4 5) K) <04" 2 : C< B < < <@9"< B< >) >) 5"< < @9) ! B ; << C< <2 : 2B (? 2 ; ' <C : 4 : 2B a K KZ) < ; ;) K KZ)

.

<) ' <0Ba : - B< 425<4"<2) 4 ; C : -) K KU) < 2) ')) G 2) < ' <0BaB - < B ! 4@95<2 2 B<2 649 <2 K K : 2B K K) "5 B<2 C<=49 "<2 c : <00<2 -<^ -<2 : 2B B4 -<5"<00" G 2 < 2<2 !"4C5 a <) <5B<2) K K) '4C ?) 6 : 240 B<5 A<0 4" 25 B2 2 <0 G @ A5 <2 K K) $4 5) KW) 6 : :B 9 5" N : < B<5 A< 4" 25 ; 0 "4 <5 B< 04 Yttt B G 5 2 B< @4G40< < 0<-< < A 0 24 5<) 2 2) E $4 5) K KZ) (CG<2B40) < ' <0Ba : - 42 B< <B< C< 2 B<2 649 <2 K K : 2B K KZ G 2 < 2< ; : -<2a< : -<2 C< 5<"a" G 2 ') G 2 6492) / <0) K K) <25B $: 00? 4-<C : @9 B<5 !" < > A5 : 2"< ' 9 : 2- B<5 4 <2 G 2) ""< 0 : 2- B<5 >) : 2B >) <-54 @9 G5) KW Z)

2) (!)

B F (O & . 6

22<< < 42a 5 5@9< ; 649 < K K) 2 < " 4- a : <5@9 @9"< B< < < : 2-5> <-<) < 0 2) K W))
4B<) 4A 0< 2 ; 649 < K K) 0 G 05) 0" 24) K Z)
<4 : @94 ; A) B<) 5" < B<5 @4 ; A4-2<5 B< K KZ K) G 05) $4 5) K Kg)
< "a>) <5@9 @9"< B< B< : "5@9<2 ' < 9< "5> <- < 2 B<2 649 <2 K K : 2B K KZ Z"9 <B2) <G 5<B C? 0B5@9 ; B") < ; <2) K K)
< " 0 2) ! " @4 24 4a 2< B<004 @4 ; A4-24 B : 55 4 K K K < 4"" B 4 ; 2 40 4 C4""4-0 4 B 4"< 0) G 05) 042) K W)
-2 B ( ) 5" < B< ' 42@< B<A : 5 0<@ ; ; <2@< ; <2" B< 04 - : < < B< : 55 < :5N JB 04 B< : B< ; < <5"4 : 4" 2) D D G) $4 5) K ZU)
M -B42 = "@9) <5@9 @9"< B<5 / <-<5 ; 649 < K K : < : "5@9042B5 2 4C9B2 - -><") 42504"<B ; "9< : 55 42) ! " $<"< 5C : -) K W)
3 <5@9 @9"< B<5 / <-<5 K KZ 2 ' 42> < @9 : 2B B<5 ! " : a<5 4A 0< 25) 42504"<B ; "9< : 55 42 C?) 4 : ; -4 "<2) G 05) (< Aa -) K)

X)

2 ' J ' M ' 0 * ' K K Z)

h 4 2 22g' :< < 8>A 082 <22<:' 4 ; A4-2< B< K K ' <2' 00< ; 4-2<:' ' 4- ; <2"4
5" 4"8 - N:<5) A4 ; ' K W)
4"C@4 "( ) <2 : : 8"4 "<4' 2' "9<' %4 ' 2' : 5>)42B' < ; 42?' 2' K K ' 42B' K K K'
(2B 2) 0 !B)
94 45(' ( ) " Z 'B '04' - : < <' K K ' <4' ; 4-2<) $4 5) K Y)
0< ; <2"((4 ; A4-2< B ' K K) $4 5) KW Z)
A0 ; 4" 5@0 < <5@%@9"< B ' 649 < K K U) (< Aa -' 42B' 0"<2C : -) K K W)
?5<2(6)) 0<! 8 2' C< ' B < < : 2-5> <-<) 2B' <B2) "94) K) S
: >< (4@) :5' B = ' 8 "' ' <B @95' B<5 55<B' : 2B' ' <B @9' % 09<0 ; 5)
(< Aa -) K Yj)
"a<0(<2) G 2) :5' B '^< '" B< ' ' < 9< "5> <-<) ! 4@95 " 4-<) 0 -2<) K)
) C< 9 @>' : 2B' / < -42 54" 2' B< ' A <: 55 5@9<2' ; << 2' B<2' 649 <2'
K Y ' : 2B' B< ' <: < ; 4" 2<2' ; ' 649 < K K)
' 5"< (') <! 9 @C'< B ' < < 22-5> <-< K K 8KU)('G 05) < 0 2) K UY K)
3 ' <2>= : B ->< " ' A <: 55) <5<9 <9"< 4 : 5' B< ; ' <0 < : 2-5> <-< K K (KZ(
KU)0 < 0 2) K
' 42aB5 5@9< ; <<(<(; ' 649 < K K) 2 2)E ; 0 2(K W)
' @@ : 5(/ 4 0 <= 9 @9"< B<5' / <-<5' K K ' : 2B' K KZ) 0"<2C : -) K Z)
4 ; 4@>( ) < 54@9<2' B< ' <B< 04-<2' 4A 0< 25(K K) 5") ^< "5@9)
G (' W)
< 0 ; 422(6) ' <0Ba : -' G 2' K K) : 2 @9) K UY)
/ 490<) < A <: 55 5@9< < "< < K YK) < 0 2) K YW)
/ 0 2> =5" B ; ( ) <5" < @95' 9< 0249 ; < 42' B< ' < < 22-5> <-<) <224)
K WY)
4 " 2 <2( ) 4C0<4 : D' B<5' @ < 5' " : B5' <" C0<55B5' Z U KUE) $4 5) K WW)
<"" < ; @9 % 22<C : -(4 (42B' / 0 2> =5" ; ( ) <5"< < @95' 9< 0249 ; < 42'
B<2' < < : 2-5> <-<: (<224) K Y)
@94 0 =5>? 42 0<=5>?( ) 4 5"<00 : 2-' B<5' ' <0Ba : -<5' 2' ' 42> < @9' ; ' 649 <
K KZ) < ; 42' " 4 84" 2' C?') G 2' / "a<C : <(08 A -) K Y)
' <2>= c B -><" 2' 4 : 5' B< ; ' ' <0Ba : -< ; ' 6402=' K K) < ; 42' " 42504" 2
C?' /) 0B94 ; ; <) A4"' K Y)
G42( ) (< 5 0B4" ; AB 40 K KZE) 'G 05) $4 5(KW Z)
42 ; 422(C) '"5 B< ; ' 649 < K K) (< Aa -(K W)
5"<2 ! 4@><2( )(' < 9< ' G 2' B<) 0 "B A 0 " 5@9< <5@9 @9"< B<5' < ; : 2-5 '
> <-<5' K K ('G 05) < 0 2) KW Z)
"" (/) <5<9 <9"< B< ' 0<"a"<2' / 4 ; A < 4A 0< 25) 'G 05) (< Aa -) K Z &
$4 : 0 -(')) <! @9 @9"< B< ' < < : 2-5> <-<) 42> "' K WK)
$ <0<"(0<' -B2B 40) (<5' A 02@ A40<5' A< 4" 25' B< 04' @4 ; A4-2< B< K K) D" 4 " B2'
5A<@"4"<: ' ; 0 "4 < K)
$ 0 : -> 4 "" : 2-(6) G :) 4AB< 2' (' 45 = 48<2' B< ' 0> 4) < 0 2) KW K)0
$ @>( ) : 5' B< ' ^< " B " K KU) < 0 2) KW)
$ "" = "a(/) () G 2)E < " 4-< a : ' <5<9 <9"< B<5' 649 <5' K K ' G 2' < 2< ; '
9 9< <2' a < ' B< ' A <: 55 5@9<2' ; << 'G 05($ "5B4 ;) K Z)
42(/)) G 2(42B' ! 2<0 G 2' / 2<2"940( )) < ' / <-' B< ' < C 02B<"<2'
-<-<2' ' 42> < @9' K K (JKZ(JKU) 'G 05) < 0 2) K K Y)
@9"< (') <5<9 <9"< B< ' B< : "5@9<2' ' < 9< "5> <-< G ; ' 649 < K K U) <504 : '
42B' < 0 2(K Y Z) < 0 2) K Z)
: 55<"( ) 04 ' - 42B<4 ; B< B< K K) $4 5) K YK)
! @92< B4 = 2B(' ' 6)) < ' <0Ba -< 2' B<2' 649 <2' K K U' : 2"< ' 4A 0< 25' A< '
5 ! : 0 @9< ' 2 : 9 : 2-) Z' G 05) 4 ; C< -) K)
! @92< B< ( ) 45 / <-5 49 ' K K) (< Aa -) K Z)
! A 5@9 0(6) < ' < 9< "5> <-< B< ' <: "<8<2' 2' B<2' 649 <2' K K U) W' G 5)
: 25= @>) K Zj j) 8
3 3' <- 55< 9 2 >' K K UE) : 25= @>) K ZK)

< 2 ' < 5@9 @9"< B< 5 :55 5<9<2 << <5 C 5 a: C<5"< 82 -' B<! / 4 5<"5
> 04 422 G< K U)
!"2C <' B < 0<"a"<2 '<0Bac-8< 8 4A 0< 2) G 05) 8< ; - K)
!=<B< :5 !@9=<B<25 $ 0 " >: :2B / <8< 2 B<2 649 <2 K KZ G a -0@9
22"< (< "22-' B<5 2A 2a<2 4 0 6 9422) 42504"<B 6 " ! =<B 59
C?) ' "5@9) G 05) (< Aa -) K)
!?C<0) G 2) < 9<C22-' 2 A45 4A 0< 2) B:2 <9) K)
4:B 2@ : " B<) 5" < B<04' - : < 5 :"<2 : < <2 K K) $4 5) K KW)
5" < B<5 @4 ; A4-2<5 B "40 < <2 K K ' <"" K KZ) (2B 2) K KY)
<2": 2 !>42B 24G <2' : 2B' 4 0 X 6 9422) :25= @>) K K)
< B? B:' < ; 5 6) G 2) !": B <2 : C< ' B<2 / <-) < 0 2) K Z)
%40B<2 ' < 9< ' () G 2) < ' / <-) B< 5"< < 9< ' 2 "40 <2 K K KZ)
4a) K U)
' BB< ; / 4 B 240 G 2) <" 4@9": 2-<2 C< ' B < - 55<2 A< 4" 2<20 : 2B
!@90 9"<2 B< ' '<0Ba -< G 2 K K ' : 2B K KZ) < 0 2) K U"
' < ! " < > A5 ; ' B<: "5@C<2 < < : 2-5> <-< K K) 'G 05) < 0 2) K WZ)
% ?24 /) 5"< < @95 <a <9 : 2-<2' a : ' !@9=<B<2' : 2B' 42< ; 4 >/ G ; <9 ; 0@9'
5< 2< $ 0 " >' C< ' B< ' < < 2 -8 : 2-' =<-<25 ; '" !@9=<B<2' 2' B<2' 649 <2' K K '
: 2B' K KZ) @9 G' : ' 5"<) <5@9 @9"<) (' YY) K WK)
>' G 2' % 4 "<2C : - 4) $ B 5 ; 0 "4 <' B<' 04' @4 ; A4-2<' B<' K K ' <2' < ; 4-2<)
(< Aa -) K K)
^<00</ %) K K .' $ <: 55<25 0>< 90 2-) : 25= @>' 42B' (< Aa -) KW U) 8
^ : 2 ; < ; 422/ %) < < < : 2-5>42 A <B< ' <: "5@9<2' -<-<2' 8 4A 0< 2) B' <B2)
!": ""-4 ") K)
' ' -<2< 40 = >5' C? 0< C" <: / 4255< / (< <CG </ 2@><2/ !@9 < ; 422/ !B : "5/
9 C4 : B<4 : / 9 < 5/ ' ! 'Q

' 24A ; @) % 225)

0< C" <: /) 4A 0< 2' C< ' (< Aa -) < 0 2) K U)
2 4B?/) G 2) (<C<2' : 2B' % ><2' B<5' 8< 405' B< ' 2 92"< <) G 2' 9242)
< 0 2) K WZ W)
< ; 422/ 6) '<0B2"4 5@9400 ' : 5" % <B<) (< Aa -) K K)
<00B / ' < 9< ' G 2) : 5' B 2' (<C<2' B<5' $ 2a<2' : -<2' G 2' % : ""< ; C< -)
< 92) K K8)
/ 0< 5"/ <2< 40 G 2) 45 (<C<2' B<5 <2< 40 <0B ; 4 5@94 5 4 ' / 0< 5" G 2' <2 '
B) < 0 2) K)
(<C<25C 0B<' 4 : 5' B< ; ' < < : 28> <-<) 2 2) E 6<24) K ZK)
(<9 ; 422/)/ / 2<5<C<@>' :) ! @9 2) < 8 - <' a ' <5@9 @9"<' B< ' ' < 9< "5> <-<)
(< Aa -) K YU)
LS3 ' ! "< 2/ ! @94 49 5"/ : 2B' ! @9 2/ (A5 -) K YY)
<2< 40 5"<00 : 2B' B< ' : 5C : @9' B<5' X <-<5' G 2' K K) 5") ^< "5@9)
C@DG2)E
< 2<@><' / 45 (<C<2' B<5 <2< 40 <0B ; 4 5@94 5) G 2' ?<2) < 0 2) K Z'
3 ' ^ : D' <: "< 0 : 2-' < ; 4B "" <5' ; ' < C5" <0Ba : -< K K) ' 5@9) a ' 42B)
: 2B' $ <: 55/ <5@9 @9"<) E G 2' < 0 2) K WZ)
2"<- : "/) (< 4 B@940 4G """" $4 5) K)
00<@9/ 4 0 H') G 2) % 09) G 2' <?9< / <2< 40 B< ' / 4G4 < < : 2B' 9<' B<5
<2 405"4C<5) 2' <" 4-' a ' <5@9 @9"<' B< ' ; << ; '" <a : -' 4 : ' B <
<1< : 2-5> <-< K K KU) < 9< '" a : ' 0 ") % @9<2C0) E K K Y)
$4 0/ ; "<' B<) $)) $4 0/ -<2< 40 <2' @9< / K K Z) 'G 05) $4 5) K Y)
B$<"< 5B /) G 2) <2 ; 20 0 ; <02 422) (< Aa -) K WZ)
$: ->) 4 "" : 2-/ 6) G 2) <"24B "" <' ; ' < C5" <0Ba : -< K K) 649 C) : ' ; <<
Z2B' 4 2<) E KW U)

) DG)

' J ' ' E (' ?!

4B<"a>?' ;' '<0Ba: -<' K K)' 649 C)' : ' ; <<' =4B' 4 2<)' 0)' K)' K W)'
405' <2< 405"4C5@C<' B< ' << 4' B< ' < C 2B4"<2' ;' 649 <' K K Z)' 649 C)'
' ; <<' : 2B' 4 2<)' <(' K)E' K WY)
3 ' <' >)' >)' <5"< <@C 5@9<' '<0B ; 4 5@94 ' 4)' 2' < 2< ; ' 5"< <@C 5@9<2'
<"< 42<2)' !"40=4 ")' K)
4A<"" & ')' (4'B< <@" 2'B< 4 ; 4"'<2'K KZ)' $4 5)' K)
D <' G 2' 0 0 <25"< ; & <2<2B0<2"242")' 2' C -8 4AC 5@9<5' <2> ; 40)' < 9< "'
4 : 2 ' 0 "4) % <C<2C04"(8' K ZY)
!@9 < ; 442& >)' ' <B >' % 0>B ; ' c ' 22B' 0=@4=0< 0 K' 2' 9 <2' -<-<25< " -<2'
<a <C : 2 - "2)' -)' ^ ": 2 -& >" C4"'K '
!@C ; A & ')' G 2)' K K .' 4A 0< 2' 2' !4@95<2)' c <5B<2)' K WZ)
!@C2< B4= ""B& ')' 6)')' '<0B ; 4 5<9400 4 ' 4B<"a>?)' : -5C : -)' K UK)'
!@9=4 "a& ()' (<C<2'B<5' <2< 405')' G 2' 04 : 5<= "a)' < 0 2)' K Y)
4 ; C4 -<2' G 2' 25<& /)')' (<C<2' B<5' <9< 405' c0 =' G 2' <22<= "a)' < 0 2)'
K U)
' <5@C @C"<' B<' / <-5a -<' B<5' <2)' <"" "2C 2& K K Z)' !" : ""-4 ")' K K)
% 8< & ')' '<0B ; 4 5@94 ' ' : 5"' 0 9< ' G 2' % 4C05"4""")' !@9=< 2)' K YW)
% < 0&)' ((<' A 2@<' : -<2<' <'" : 4" ' K K Z' $4 5)' KW)
' ' - 4A9 @40 = >5' 2' 4A 0< 2' ' : ; < ' 42B' # @>' G 2' % 4 "<2C : -E&
4A 0< 2' 42B' < ; 4B ""<' $ 2 - 4 : BE& 4A 0< 2)5' 4 59405& <"@)' 0< C" < : E& 4G :'"
0 @N : <G <& - < E& <?' (4' 8B ?< <E& : B02 '" <"E& 42B4 ; ; <' B :' 455<E&
5 0c@9<' 0482B & !@C< & 4 294-<2' G 2' 25<E ' 2< 5<24 :' $< "a <0C @>E&
!@94 29 5'" / 0 AA<0& (<9 ; 422E& # @>' ?5<2E ' 5<<' ! 'Q =

1 &'

A ! =%ABB# K K)

5"< &)' G 2)' !@9 0B< : 2 -' B< ' / 88 < - 2 55<' 2' 2B' G ' <5B<2' G ; ' Y)
4 a' C 5')' : - : 5'" K K)' <5B<2' 42B' (< Aa -)' K ZZ)
5"<&)' <' <" "" 5"< <@95' 5 : ' / 40 " 2' ; '649 <' K K)' ""9< 0 : 2 -<2' B<5
>)' >)' / <-54 @9 G5)' K WZ)
' : @4 "& $)')' 4 : "a<2& : 2<' C4"4 00<' B<' B< : D' : 5)' $4 5)' K WY)
' 4 : "a<2& 04' A : 5 : "<' : 5N :)4' 4 ; 5" @<' ' ; 4)Z ; 2)' $4 5& 42@?)' KW K&
<C<2&)' G 2)' <5@9 @9"<' B<5 ' C 4C 5 <0Ba : -45' K K ' : 2B' 5< 2<' -<5B @9"<)
' <5@9 @9"<' B<' < < : 2 - 5> <-<)E' < 0 =' KW Z)
/ 2 -5=4 "94 %< 55 -& 45' < <2' C< & 4 ; ' KW)' 4 ' K K)' < 9< '" a : ; ' C"9)
% @9<2C04"")' 4 @9 6 : 2<& K Zg)E
(42 <a4@&)' (')' (4' ; 42 <: G <' B<' (0"a<2' K K)' $4 5' 42B' 42@?)' KW Z)'
<< 9< ; C& ')' G 2)' <' ! @904@9" C< ' 4 : "a<2& K)' 4 ' K K)' < 0 2)' K Y)
' ^ : ' <5@9 @9"<' B<5' / <-<5' ; '649 <' K K)' < %4 <2 ; 005"42BG 2Z)' 6 : 2
C 5' KY)' : - : 5")' ^< "5@9 " ' A < : 55& B<5@9 @9"<' : 2B' (4 B< > : 2B<)' WZU)E'
5"<2 ! 4@><2&)& ' < 9< ' G<2B<)' 4A 0< 2' C< ' 4 : "a<2)' 0 "4) % @9<2C04"")'
< 9< "& KW)E
!@9 < ; 422& 9)' ^ : ' % B - : 2 -' B< ' / 2G<2" 2' G 2' 4 : --<2)' 5" 5@9<'
^< "5@9 "')' 0)' Z)E' : 2 @9)' KW)
!@9 "a& %)' G 2)E' <' ' <0Ba : -' G 2' K KZ)' ' G 05)' < 0 2)' K Z)
9 ; ; <& ' <B @9)' ^ : ' / 2G<2" 2' G 2' 4 : --<2 ' ' 5<C : 2 -<2' a : ' C 42B<2C)'
: 2B' A < : 55)' <5@9 @9"<')' 0)' D 2)' (< Aa -)' KW)
' / 2 -' ' <B @9' % 09<0 ; ' & 5< 2' 2"9< ' 42' B< ' / 2G<2" 2' G 2
4 : --<2)' 2' ' 5@9)' a : ' C 42BC)' : 2B' A)' <5@9)' KW)

A =?3+ ! # K K)' [

5"< &)')' <' < <@9"<' : 2B' !@C04<C"<2' C<' (< Aa -' ; ' >" C<' K K)' %' 2)'
<5B<2)' K)

5"< &)) < / <-5< < -2 55< a= 5@9<2 $<"< 5=4 <): ; ' : - : 5"& K K & : 2B
B< ' ! @904@9" C< ' / : 0 ;) <5B<2) K ZU)
< ; <2& %) G 2) < <2"5@9< B<2B<2 4-< G ' (< Aa -) < C< "< a: ; ' 0 "4) '
% @9<2C04"")E K W)
<"0< 2&)) < ! @904@9" C< ' %4 "<2C2 -) % ""<2C< -) K)
& 6) < ! @904@9" G 2 4242 4 ; ') >" C< ' K K) 455<0) K K)
' <?"4- (2-9 <2& ' < 9< ' G 2) : >04 : 2 -' : 2B %2<< 9 : 2-& B4 -<5"<00"
42 B<2 < -2 55<2 C< ' B< ' 5@90<! 5@9<2 22<< ; ' < C5"< K K) < 0 2) KW)
' <B< @9) <5@9 @9"< B<5 < C5" <0Ba: -<5 K K) ' G 05) <5@9 @9"< B<
< < : 2-5> <-<)E < 0 2) KW)
)&) : 4 BE) ! " 4"<- @ 24A 0< 2 <22<) (4 @4 ; A4-2< BJ42" ; 2< B< K K ' <"
0<50 -2<5 2"< <: <5) $4 5) K WY)
55<&) < - 55< 0>< 5@904@9" C< ' (< A8B-' ; ' 649 < K K) (< Aa -) K ZK)
<0 < "& 6))& ' < 9< ' G 2) < ! @904@9" C< ' / : 0 ; & K K) <224) K)
<00B & ' < 9< ' G 2) ^ : ' <5@9 @9"< B< ' ! <904@9" C< ' / : 0 ;) < 0 2) K U)
; 0?& 000) <04" 2 A 255 < ; < B< 04 C4"4 00< B< (< A5 @ A4 ' $0 "9 F))) <04" 2
44" @C <22< B< J4 4 < B< (2B<24 :' <" B4 @ ; C4" B< 424) $4 5) K Z) 0
4 : 0 : 8&) < ! " 4"<- @ !@9=4 a<2C< -5 4 ; ' K) KZ) 2B KU) >" C< ' K K)
< 0 2) KW)
< @924=<&) / 4G400< <G< =<2B : 2-& : >0 ! : 2-& : 2B ; << : 9 : 2-' C< ' B< '
42A"4 ; << 2 B<2 <2"5@9< B<2B<2 4-<2 ' (< Aa -) <224) KW Z)
0< 5"& <2< 40 G 2) 2 <5B<2 24<9 / <2B 8 : - : 5" K K H < 9< " a: ; 0
0 "4) % @9<2C04"")E K W)
2 -< & ') < 0>< 5@904@9" C< ' (< Aa -& 0< Aa0 -) K Z)
(4-< 9 <0 ; &) 4A 0< 2 @9' 4 0 6 942 : 2B< ' -<" ' 85>042B& K K) ! " @>m
9 0 ;) K WK)
4A 0< 25 A< 4" 25A0 ! 2< G 2 55 << <2 C 5 <22<= "a) 0 "4) % @9<2 '
& C04"") < 9< "<)E K)
4A 0< 25 < 940"<2 24@9 B< ' ! @904@9" C< ' <5B<2 = ! 9 <2B B<5 @>a: -<5 B< '
4 : A" ; << C 5 a: ; ') : - : 5" K K) 649 C) : ' ; << : 2B 4 2<)E KW)
<: ; 422&) < 0>< 5@904@9" C< ' (< Aa -) (< Aa -) K)
9a<2 cC< ' B45 / 4G400< <-< <@9" G 2 (<C< "= 0>G "a 4 ; ' KZ) >" C< ' K K)
0 "4) % @9<2C04"")E K ZK)
2@><2& %) : 5 B<2 0<"a" 8 24"<2 B<5 649 <5 K K H / 5" 5@9<5 45@9<2C : @9)
! D"9 ! < <5& 2B ?<4)E < 0 2) K)
$400 ; 422&) ' ! @904@9" C< ' 55 << <2 : 2B <2< 40 G 2 00 =) 2 < " 4-'
a: ; ' c : <00<25" : B : ; ' B< ' 2<: < <2 A < : 55 5@9<2 <5@9 @9"<) < 0 2) K Y)
$ B 2&) 4A 0< 2& B< 5B< ' (< Aa -) $"2B<5" 4"<- N : <) $4 5) K WK)
$ 25) < ; < >= : B -<2 4-< B< ' ! "4B" ' : 2B "" ; 0 8-<2B<2 <-<2B G ; ') : - : 5"
C 5 a: ; ' K) G< ; C< ' K K) A ; 4) K KZ)
c : 5" A&) G 2) ^ : ; ' < C5" <0Ba2-< K K) 649 C) " ' ; << : 2B 4 2<)E KW Z)
<BB &) %) 5" 5@9< < " 4-< a: ' <5@0" @9"< B< ' ! @904@9" C< ' 424 : ' 4 ; ')
42B K) >" K K) 424 :) K)
0 &) ! < 2"5"<9 : 2-' B<5 A< 4" 25A049<5 ' B<2 < C5" <0Ba : -' G 2 K K)
0 "4) % @9<2C0) < 0 2) K W)
! @9=< " <-< & G 2 B<) 45 < ; ' 42 B< ' 9 B< 4 ; ' K) ! <A"< ; C< ' K K) < 9< "
a: ; ' 0 "4) % @9<2C04"")E K WY)
! A 5@9 0& 6) < <=<- : 2-<2 B<5 G) B""< < @9 5@9<2 ; <<> A5 2 ! 4@95<2 ; '
! <A"< ; C< ' : 2B >" C< ' K K) 5"< < @9 5@9< 0 "B a< "5@9 ")E K ZY)
' < 0>< 5@904@9" C< ' (< Aa -) (< Aa -) K Z)
8 ;) = 4aB =5> &) 6 ' G 2) 45 < <@9" C< ' 0BC< - <B< 4 : ' G ; ') : - : 5"
K K) < 0 2) K Z)
4 @8 2& $) %) G 2) < 0>< 5@904@9" C< ' (< Aa -) : 25= @>) K)
%<92< & "") 4 0 6 94 ; ' : 2B 0 =' 2 B<2 < 5"<2 4-<2 24@9 B< ' ! @904@9"
)) & x)) x) UU

(4@9 ; 422& <2< 40 G 2) < C< : 2 - 2 / 455<0) 4259"<B ; '"9< :55 42) 5"< < @9) ; 0) ^< "5@9 ")E K !)
$ 0: -> 4 "": 2-& 6) G 2) 2< ' < ; B9< 5@94 " 4 ; C: -& K K 8E) %<5"< '
; 422)5 24"59< "<)E KW Z)
!A<@C"& '))) G 2) 45 / 2 - < @9' %<5" 40<2&: 2B'5< 2< ; <<'K K) / 455<0) K Z)
4 ; C4-<2' G 2' 25<&)) <5@9 @9"< B< ' 94 ; C: - 5@9<2' <-<C<29< "<2' =-9 <2B'
B<5 ' 9 49 5'K K) (2B 2) K K)
0B< ; B ' : 2B' %4 4B< 2& 4 2' e)' G 2& -58 5@9 @9"< G 2' 4?< 2' : 2"< '
/ 2 -' 4D ; 0 42' 6 5<A9' K) : 2 @9) K)
' 400 ; B<2 ; C ; & < ' ' <0Ba : -' B<5 / A5' <2< 405 5 <2' (: B= -' G 2& 42' B< '
<B< <0C< : 2B' 2' <0- <2' K K Z) 0"<2C : -& K Z)
I)8_ < ' ' <0Ba : -' 2' <@>0<2C : -' : 2B' 05"< 2' ; ' 649 < K K) < 0 2)' K KY)
G?< 2-4 "<2& G 2) <5@9 @9"< B<5 ; <<> A5' " 2"< ' B<2' < <90<2' B<5 4 <2' G 2'
%400 ; B<2 ; C 2' 42' B< ' <B< <0C< " ; B' 2' B<2' <B< 042B<2& 5"< < @9 '
5@9< "4 a< "5@9 ")E K Y)
%<00 ; 42& G 2) : 5 B< ; ' ' <0Ba : -< B<5) A < : 51<9<2' 22<<> A5' 4 ; ' <B< '
9< 2& K K Z) 649 C) ' ; <<' : 2B' 4 2<)E (' 2G0)
^42B< &) ()) <5@9 @9"< B<5 / <-<5' 42' B< ' <B<80C< ; ' 649 < K K) 2< '
C: -) K W)

.

422< &) <5@9 @9"< B< ' A < : 55 5@9<2' (42B 8<9) 5" 5@9< 4 5"<00 : 2-' : 2B'
<0< : @9" : 2-' 9 < ' -<5@9 @9"<& @9" : 28& : 2B' 5 8"< <2' -42 54" 2)
< 0 2)' K)
4 5"<00 : 2-' B< ' < -2 55< C< ' B< ' 5@C0<5 ! @9<2' ; <<' ; ' 649 < K K & ; '" C<5 2B< < '
< @>5 @9" - : 2-' B<5 2"< 05' B< ' A < : 55 5@9<2' : AA<2) <2< 405"4C.' / <-5 '
-<5@9 @9"0 @9< C"< 0 : 2-) < 9< "<a : ; 0 "B) % @9<2C04"")E < 0 2)' K Z U)
5<0<2& 6) ')) <5@9 @9"< B<5 ("a =5@9<2' ' < @ A5) 400<) K ZK)
' : @4 "& $)) 2< B G 5 2' B< 04' @4G40< < B-< < <2' K K) $4 5) K WK)
' < = 00 -<)64-< <"4@9< ; <2"5& < ; 4" 2' B<) < 9< "< a : ; ' 0 "!) '
% @9<2C04" (E < 0 2)' K ZU Y)
<5@9 @9"< B< ' B ; <<' ; ' 649 < K K) < 9< "< a : ; ' "4) % @9<2C04"")E
K UW)
/ <-5-<5@9 @9"0 @9< 25<05@9 "<2) < 4 : 5-<-<C<2' G ; ' - 55<2' <2< 405"4C<&
C"< 0 : 2-' " ' / <-5-<5@9 @9"<) < "< & ' : 2B' K) < 0 2)' K &K Z&K W)
0 "4) ^< "5@9 "& 5"<) K Y) <5<9 @9"< B<5 ; <<> A5' : 2"< ' B<2' < <90<2'
B<5 <2< 400< : "242"5 4 <2' G 2' %400 ; B<2) % <2) K Y)
B4 ; <<& <5@9 @9"< B<) "') % @9<2C04"")& < 9< "<& K UW& K & K U)E
$B" <"&) 6 : 240 9 5" N : < B< 04' B G 5 2' 6< @4G400< <0 B-< < B : ' U) @ A5' K KZ)
$4 5& K K)
$ 5"< &) : 5' B< ; ' (4-< ' B<5 9< 2C : 2B<5' K K) ! " : ""-4 "' 42B' (< Aa -) K WY)
c : 5" A&) G 2) <5@9 @9"< B ; ' B ; <<' ; ' 649 < K K) 05) & ;)
< 0 2)' K WZ)
"94 : ! @9<) 45 % ><2' B<5 <25B 5<9<2' ! " < > A5) K Y)
! 4@95<2& < $<0B< -< B< & 2' B<2' 649 <2' K K ' : 2B' K K) <5B<2) K K)
! @9 2 2-& /) %) G 2) 5") C - 4A9 ' 4<9 @9"<2' a : ' <5@9 @9"< B< ' C 42B<2C)
A < : 55 5@9<2' " 00< <) < 0 2)' K ZZ U)
! @9 : 5"< &)& : 2B' ' 42><& ')) <5@9 @9"< B< ' 54@95 5@9<2' ; <<) (< Aa -) K U)
! <C< "' C< ' B<2' ! " < : -' 9 < ; 4225' ; ' ' <0Ba : -' K K) <224) K WU)
! " "9& ')) < >B2 -0) A < : 55) < "<2B< " 00< < G ; ' 649 < KYUW K K)
4 < 0 2)' K)
-<0& ') () < 0249 ; < B< ' > 2 -0) A < : 55) " 00< < 42' B< ; ' / 4 ; A < B<5
' < < : 2-5> <-<5) < 0 2)' K Z)
%< & ' ' 4 ; A4-2< B< K K) (4' 4G400< < B<5 4 ; <<5 400 <<5) $4 5) K)

/) X) U 3

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9< ; 4 2ʻ A4 "ʻ ʻ "9< ; 42 : 5@ A"ʻ ; 4"< 40 ʻ 4ʻ 9 5" ?ʻ ʻ "9< 2 - <55ʻ ʻ <224 42Bʻ ʻ "9< ' 5"ʻ 42Bʻ "9< ! <@ 2Bʻ $<4@<ʻ ʻ $4 5 45ʻ = <00 45ʻ ʻ "9< -<2< 40 B A0 ; 4" @ 9 5" ?ʻ ʻ "9< ?<4 ʻ K KZ 5" ʻ C< : 2Bʻ 2ʻ "9< B 5A4"@9<5ʻ 42Bʻ "9< ʻ A4A< 5 B<A 5 "<Bʻ 2ʻ "9< @9 G<5ʻ ʻ "9< G4 : 5ʻ B<A4 " ; <2"5ʻ ʻ "9< 5<G< 40 : A<42ʻ G< 2 ; <2"5ʻ 5"ʻ ʻ "9 5ʻ ; 4"< 40 C : "ʻ 2 "ʻ 45ʻ ?<"ʻ 400 5ʻ 4@@<55 C0< " ʻ "9< 5" : B<2"ʻ 9< A4A< 5ʻ B4" 2-ʻ ; ʻ "9 5ʻ A< Bʻ 2ʻ "9< ' < -2ʻ @< 4"ʻ $4 5 = 9 @9ʻ 2@02B< "9< @ 40 @ <5A 2B<2@< ʻ "9< ' <2@9ʻ < ; C455? 4"ʻ <224 4 < A<2ʻ " ʻ 5" : B<2"5 2ʻ A< ; 55 2ʻ ʻ 4ʻ @ ; ; ""<<ʻ "9 5< 2ʻ "9< /)ʻ /)ʻ ! "44"54 @9 G 4"ʻ <224ʻ 4 < A<2ʻ " ʻ 4AA0 @42"5 42Bʻ "9 5< 2ʻ "9< /)ʻ /)ʻ 4 0@9 Gʻ 2ʻ A< ; 55 2ʻ ʻ "9< 2 5"< ʻ ʻ "9< 2"< ʻ "9 5< 2ʻ "9< <9)ʻ ! "44"54 @9 Gʻ 42Bʻ "9< /)ʻ 4 : 54 @9 Gʻ 4"ʻ < 0 2ʻ 2ʻ 4AA0 @4" 2ʻ " ʻ "9< <@" ʻ "9< ! "4"< <@ B5ʻ 4"ʻ : 55<05ʻ 42Bʻ 4"ʻ "9< 4 - : < 4 < <<0? A<2<Bʻ C : "ʻ 5A<@ 40 A< ; 55 2ʻ 5ʻ <N : <Bʻ ʻ "9< : 5< ʻ "9< A4A< 5ʻ ʻ "9 5ʻ A< Bʻ 2ʻ "9< ; A< 40 @9 G<5ʻ 4"ʻ ! "ʻ $<"< 5C : -ʻ 42Bʻ 2ʻ : ʻ = 2ʻ ' < -2ʻ @<)ʻ 2ʻ 4BB " 2 5 ; < ʻ "9< 5 ; 400< ʻ @9 G<5ʻ @ 2"4 2ʻ A4A< 5ʻ ʻ 2"< <5"% ; < <5A<@ 400? "9< ?40 @9 G<5ʻ 4"ʻ <5B<2 3 45ʻ ʻ 25"42@< "9< < ; ʻ ʻ <@< ; C< ʻ K KZ = "9ʻ <-4 Bʻ " ʻ "9< ; 424-< ; <2"ʻ ʻ "9< 8 D 2ʻ N : <5" 2ʻ 4"ʻ "9< 2 - <55)

"ʻ = : 0Bʻ 5<< ; ʻ 45ʻ ʻ 2 ʻ A G4"< @ <5A 2B<2@< < ; 4 2<Bʻ : 2A : C0 59<Bʻ = 9 @9ʻ 5 0 ><0? " ʻ <N : 40ʻ 2ʻ 2"< <5"ʻ "94"ʻ = 9 @9ʻ 945 40 <4B? C<<2ʻ - G<2ʻ " ʻ "9< = 0Bʻ 40"9 : -9ʻ ; A "42"ʻ : 55 42ʻ 5 : @<5ʻ 4 < 20? - 4B : 400? C< 2 -ʻ ; 4B< 4@@<55 C0< " ʻ %<5"< 2ʻ <4B< 5)

' ʻ 4ʻ @ ; A0<"< 0 5"ʻ ʻ "9< A0<2 A "<2" 4 <5ʻ 4"ʻ "9< 2 - <55 5<< / 0 c C< @"<2ʻ <"@)ʻ 0)ʻ G0 AA)ʻ ʻ 5NN)ʻ < @ "<5ʻ 45ʻ 4ʻ B< <@" G<Eʻ @ 2"< ; A 4 ? 0 5"ʻ "9< [: B< B<5 08" 42 -< 5ʻ 4ʻ <22< A<2B42" 0< 2 - <5 \ʻ A : C0 59<Bʻ 4"ʻ <224ʻ 2ʻ 642)ʻ K K ʻ C? [6<42ʻ $4 - - 4 ; @ : <: ʻ B< !)ʻ)ʻ)ʻ 0< : < 0C< "ʻ B< ! 4D< <5@9<2) \

($!)

! 9 "ʻ C C0 - 4A9 <5ʻ = ʻ C< : 2Bʻ 2ʻ 0)ʻ Dʻ ʻ (4G 55< 42Bʻ 4 ; C4 : B 5ʻ [5" < <2< 40<ʻ ʻ B< 2ʻ : A< 42Bʻ 2ʻ)ʻ ! < 5ʻ = >ʻ 2ʻ "9< ! <@ 2Bʻ $<4@<ʻ ʻ $4 5 @ "<Bʻ C<0 =)ʻ ' ʻ < ; 42ʻ 4 4 5ʻ 5<<ʻ)ʻ ! "< 2B 5 <B " 2ʻ "9< "9 "" 2 -<2 K K WZʻ ʻ 490 ; 4 : 2 %4 "a [c : <00<2> : 2B< B< ʻ B< : "5@9<2ʻ <5@9 @9"<)\ʻ 9< C C0 ʻ M - 4A9? ʻ "9< ! 4D 2ʻ N : <5" 2 = 9 @9ʻ 5ʻ G< ? <D"<25 G< 42Bʻ ʻ A<@ : 0 4 ʻ 2"< <5"ʻ 5ʻ G< ? <D94 : 5" G<0? " <4"<Bʻ 2ʻ ʻ ')ʻ 5>4 [ʻ < $: C0 a 5" >ʻ B< ʻ 54@95 5@9<2ʻ ' 4-< 4 : < ; ʻ % <2< ʻ / 2 - <55 \ʻ 4 <5@9< C942B (ʻ a : ʻ 2< : < 42ʻ <5@9)ʻ DDG : Eʻ 400<ʻ K WK)

!)ʻ X X ʻ XX)

: 25"< ')' ')')' : 2"' G 2)' <' <A<5@9<2' C< ' B<2' % <2< ' / 2- <55(<B "<B' C?' : 2"' G 2' 2j "<)' 2' $ 0 " 5@9<' ! > aa<2' C< ' B <' (4-<' : A45' G ;' % <2< ' 2- <55' C 5' a: ' <- ; *4 "' (< Aa -)' K Y)
<5"< < @9 5@9<' < C4@C"< (B<)' <224)' K KZ KU)' I6 ! B "<B' C?' $ 04")_
$ aa ' B ' - ' ; "<(4 ; C4554B<: ' B<' : 55 <' <2' ' 42@<(<5A 2B42@ ' B A0 m ; 4" N : <' B2(<'" B2' ; "<' B<' <55<0 B<(B<A: <' 04' <5"4 : 4" 2' B<5' 2 C 25' : 5N : J4 : ' @ 2- <5' BJ D 04 94A<00<' K KZ K E)' B "<B' C?' : 2'")' $ aa ' B ' -)' 0)')' $4 5)' K W)
400<? 42B $< - B( )')' BC($ 2 <' B<' B2<G<2"')' <"2 <5)' @6 ' Q =' ' " ' /#' . ' I 2"4 25')JC @ <5A 2B<2@<' = "9' (: 5' X (A <G : 50?' A 2"<B' ; ' "9<' ' <2@9' ' < -2' @<' @9 G<5' C?' $4004 2(i 89' @< "4 2' B < <2@<5(42B' = "9' "9<' 4BB " 2' ' "9<' 0<""< 5' 4BB <55<B' C?' "9<' / 2-J5 4 ; C4554B 5' C?' ; "<' B<' 642@ : ' 2')J5' 4C5<2@<E " ' "9<' ' < -2' 2 5"< ' 4'" $4 5)' 0)' c' @ 2" ; 25' 5 ; <' 2"< <5" 2 -' ; 4""< ' @ 2@< 2 2 -' "9<' 2<- " 4" 25' ' "9<' ! <@ 2B' $<4@<' ' $4 5)
?'" <5A 2B42@<' 2BB "<' B<')' <'" B :' ' (: 5' X ' A<2B42'" 0<' 2- <5' B< <22<)' B "<B' C?' $4004 2)' $4 5)' K K)' 2-0(" 4250)' ' G 05)' (2B 2)' K K)' < ; 42' " 8 0)' C?' $)' 4 00<2)' (< 8 -)' K 8 K)' I 2"4 25(4 ; 2-' "9< ' 2"< <5" 2-' B @ : 2 <2"5( )J5' <A '" " ' (2 5' X ' ' 6 : 2<(K KU(45' " ' "9<' -<2< 40@ 2B : @'" '4 4 5'4'" <224'C?' "9<' <2@9' < ; C455?)_
% <2< ' 2- <55 9 2 >)' ' 44><2"940 42B' % ; 5)' K KZ KU)' I 2" : 5"= "9?)' % 09< @<(% 00 4 ;)' <5A 2B<2@<)' B "<B' C?')')' 42B' !)' % 0C< @<)' ' G 05)' (2B 2)' K Z)
' ' "9<' 5A4"@9<5' <"@)' ' % <00 2 -" 2' 42B' 45"0< <! - 9("9<' 4 <5' ' <2"a' 42B' 64@>5 2(!"< 2J5' >"<25" @><("9<' <5A 2B<2@<' <"@)' ' 0<D42B< ' K' 42B' a4 ' " ?5> (' ! ' Q + =

% $ ' $ ' S ,

I <" 2(4 2')')' 2)6' ! 4@95<2' : 2B' $ <: 55<2' K KZ)' 6 ' ' I -4 25'" "9<' A B : @" ; ' ' <5' @ "<B' C<0 =)' ! : AA <55<B(C : '" "= @<' <A 2"<B)'
I 2B"( )')_' ' <B @9' : - : 5"(/ 2 -' G 2' ! 4@9 ! <2(: 2B' 5< 2' 0>' ;' 649 ' K K)' I (< Aa -)' K KZ)' I 2' 4""4@>' : A 2' "9<' / 2-J5 A 0 @?' 42B' @ 2B : @")'
I 99 ; (6)')' ')' &6' 2' B <' % B<A54@9< ' B< ' < < 2 - : 2 -' ! 4@95<25' ; '" $ <: 55<2)' ' 42> '" 42B' (< Aa -)' K KU)
I <5(6)' 6)' G 2)' ! 4@95<25' $ @9'" : 2B' <@9")' 2' 9< 2 5@9<' < @ : (5) W 3 8(Z) C0<2a)' 6 : 0?' K W(K KZ)' I 2' 4G : ' ' 422<D4" 2)_
I : 422(6)')' $ <: 55<2' : 2B' ! 4@95<2)' < 0 2)' G< ; C< (K KZ)' I -4 25'" "9<' A4 ; A90<'" ' <" 2' @ "<B' 4C G<)_
<C : 9 ( )')' $ < 55<25' <@9'" -<-<2' B<2' 54@95 5@9<2')' < 0 2)' K KU)' ! 4@95 5@9<' >"<25" @><' 4 : 5 B< ' <5B2< ' -<5@9 <C<2<2' ^< " : 2-(K KU)' I ' 04 -<' A A " 2' ' "9<5<' A <@<5("9 : -9' 2 '" 400(4 <' -< <5)' 9<' A : C0 @4" 2' 5' 4' $4 "9 42' 5 ; '" 4-4 25'" $: 55 4(A< 94A5' ' G4 42' - 2)_' K KU)
I ! 4 " : 5( )' !)(4 "< =4 B5' 4 2' G 2' %40"< 594 : 5<2)' C< ' B <' < < 2 - : 2-' ! 4@95<25' ; '" $ <: 55<2)' 2' < 2< ; ' A <: 55 5@9<2' $4" "<2)' K KZ)' I -4 25'" 422<D4" 2)_

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% $ ' - ' ! , '

00< ; 422 4)' : 2 @9)' K KU)' I 2B : @"<B('" 5' 5 - B(C?' 4 2')' G 2' <" 2' 42B' & G 2' ; 422(2' "9<' 4G4 42' 2"< <5'" 42B' : 2B< ' ' <2@9' 25A 4" 2)_
2B"( )')' 0 @>' 4 : 5' B< ' ^< '" 4 : ' B <' ^< ")' [< ; 42 <2)\' I < 0 2g' K KZ)' 8' IA4 ; A90<'" 2' 4 : ' ' B : 40 : 0<' ' : 5" 4' 42B' $: 55 4' 2' < ; 42?)_
3 ' <' 0 <><' B< ' ! " : 2B<' 2' ^ -<2)' < 0 2)' K KZ)

!)' X X8' 6 X,)

M_I

4A< -4<&))) (< 2- 8' B< 4 ; < B ' ' 4AA "5 4G<< 04' @ @@ ; '
5@ A" 2' 4@": <00< B< J 2 A<) $4 5) K ZY)
I '045542&) B< 45 5 B<) ' 5" < B :' A2- 8' BB' <22<) !<< : 2B< ')E
4-< 2& ' < 9< ')) e) ' B04' 2"9 8' 42' B< ' $ 0 " >) Z8' 8' 4@9'
4A 0< 2J5 ' 400) 3 < ' 2- <55 a :' % <2) I 9< AA<2B D' @ 2"4 25 2 :"2?
B @ : ; <2"5& @ 40 42B' : 240 5" @) ' ! " : "" -5 " 42B' : C 2-<2) K) 0) G.'
; ' a2 < "< $4 5< ' ' <B ;) I% "9' AA<2B ' ' @ : ; <2"5), ' (< Aa -) K ZU)
(4-4 B<& ; "<) B<) ' <"<5 <" 5 : G<2 5 B :' 2- <5 B< <22<) ' G 05) $4 5)
K Z4
(4 4 B< 94 ; C 245& ; "<) B<) ! : G<2 5 B :' 2-@8' B< 42<) B "<B'
= "9' 2" B : @" 2' 42B' 2 "<5 C?' ; "< ' 0< : "?) $4 5) B 0)
0 -2<& 94 0<5 6 5<A9' $ 2@< B<) < ; <5 <" ; <042-<5 9 5" N : <5 <" 0 ""B 4 <5)
U G 05) K Y W) 2-0& 5<0<@" 2' 42B' " 42504" 2' C?' T # $) % ; <0<?& = "9'
2" B) C?' ! 4 2"< <: G<) ' G 05) K WW)
2"<"& 4 22< B<) ! : G<2 5 KY U K E) $4 5) K U) I 2"4 25 5 @ 40 < ; m
2 5@<2@<5 +' "9< 2- <55)
5" a& /) G 2) (<C<2) (< Aa -) K Z) I 2"4 25 5 @ 40 <"2 2 5@<2@<5 ' "9<
2- <55)
$ 4B"&)) B<) :' 2- <5 B< <22<) ' G 05) $4 5) K KU)
! @94 : ; 422&) ')) ; @9 @9"< B<5 a=< "<:' $4 5< ' ' <B<25 ' A< : "5@9042B)
:5 >"<25" : @><2) "" 2-<2) K ZZ) ' ; ' A4A< 5 ' : 2" G 2' % 2" '
5B2-< B<)E

' ' "9< < ; 5 ' 4 294-<2' G 2' 25<& 42B' ' <2<G40 2' 4A 0< 2' 42B'
4 < (: 5<E& ' ! ' Q =' C ' < ; 2 5@<2@<5 ' 4 : 04 2@ : "& '
Q ' ' ' /# .

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5 22 ()

BC B : &) 5" < B A0 ; 4" N : < B< J : A<& 0)) $4 5) K WK)
I =& % & G 2) ' <: >5@9 "<2' : 2B' < < a: ' 94 4>"< 5" >' B< ' % <0" : 2B'
0 ""<2B 2) U G 05) < 0 2) K 8K)
$ 4"9<&) <5@9 @9"< G 2' ! 4@95<2) (' # <5@9) B< ' <: A) ! "44"<2)E
"94) K Y)
< G 2 : 5&)) <5@9 @9"< B<5' KW) 649 9 : 2B< "5 5< " B<2' % <2< ' < " ! -<2)
0)) ! <@" 2' 2 .' < ' % <2< ' 2- <55)E (< Aa -) K UU) ' <2@9' " 425m
04" 2' C?' 25<2) 0)) K Z)
2554?<&) K KZ' K' G 0)E) K KU' G 05)E) $4 5) KW)
/ 2 -< & 6& < ' 8<-' G 2' K K ' : 2B' B < < " -< G 2' % <2' : 2B' $4 5) (< Aa -)
K U)
40<"&) (4' ! ; 2"< 42@< <" 0< 2- <5) 94A& 2' ' 0) D' ' (4G 55< 42B'
4 ; C4 : BJ5 5" < -B2B 40< B :' G['5 <@0< ' 2 5 : 5) $4 5) K W)
: 25"< &))& 4 ' a:) $ 0 " 5@9< ! > aa<2' C< ' B < (4-< : A<J5& K KU UY)
(8Aa -) K Y)
<"" < ; <2"&) ') B<) 5" < B< 04) <5"4 : 4" 2) 05) & ' $4 5) K)
00 G < & ; 0<) (J ; A < 0 C< 40) 0)) $4 5) K W)
<: ; 2"& ' G 2) <5@9 @9"< G 2' 5@424) 0)) <5@9) B< ' <: A) ! "44"<2)E
"94) K YY)
&8 @94 & ' (') G 2) <5@9 @9"< ' 42> < <95 G ; ' ! " : a< 4A 0< 25 C 5 a: ' % <B< '
9< 5"<00 : 2-' B<5 4 5< "9 : ; 5) ! "44"<2-<5@9 @9"< B< ' 2<: <5"<2' ^< ")E 0))
&(< 28) K))
0 &) $ 0 " >' 2B' / <- : 9 : 2- = 49 <2B' B<5 ' <0Ba : -5 G 2' K KZ) < 0 2) K WK)

!) !' XX (

YZ ' (+ ' ' :

! B - C 0 ; 5) 5" < A 0 " N : < B '] : A < @ : "< ; A : 2 < G 0 : " 2 B < 5 A 4 " 5 S < " B : 5 " <5 A 0 " N : <5 K KZ W $4 5 K WY I ' < - 2 4 4 5 " <4"<B C < 0?) ! A <0 (<5 00 B5 <" 04 $4 D <2 K K <G : < B<5 $ < : D 2B<5) $4 5) 6 : 0? 3) : - : 5"(KW Z)

b" A 2 - < ' <5@0" @9 < <5"< < @95 5< " B<2 % <2< ' ' <B<2 K W ' G 05)

)) (< Aa -) KW U)

! "< ; (<5@0 0 "< : A45 5< " B<2 < " ! - <2 G : K KU C 5 a : ; ' ' 42> : "< ' ' <B<4 2 K YK) 0) (< 0 2) K WZ)

<0 45"<0 4 N : ' ( ) B<) 5" < B< 04 <5"4 : 4" "") 05) 2) $4 5) K)

' ' ; < 40 %< >5 2 : 55 4 < ; C4 B (! @9 < ; 422E ! A4 2 4 : ; - 4 "<2E "40? 42<C E " ; 42? 0 : 55< (< "5@9><E : 5" 4 42" ' $: 55 4 9 @><2E $: 55 4 ! "< ;)5 >"<25" : @> E ' 42@< "0 < 5E : A < 2 ><2E 5" ? ' <4" <5 4 B<2E 5" @40 < - 4A9? ' << ; 42E 42B 4A5 ' ! ' . 3 + !

<2 $))

00 - < ; < 2 < B < : "5@9 < - 4A9 <) " @0<5 4 ; 2 - ' "9< 5E 2 <2"a C?) << F 2 <""< ; @9 C? $) 4 00 < : F 2 : 25"< ' C? ') ' <25B F 2 ! "< 2 C?) ! "< ; F 2) G 2 %<5<<NC< - C? 6) ') G 2 ! <920"CF 42B 2 RK G 2 %<55<2 ' C< - ' C?) G ' ; <"9) (< Aa - (K Y WY)

; <" E) G 2) 6 9422 ' < 9< ' 2 %<55<2C< -) 2 5"< < @9) ! "44"5 ; 422 B<5 KW) 649 9) ' 05) <224) K W)

- 0 < 0 <B (: < B<) $ < 4@< " ' "9 < < ; 5 ' 400<? 42B) $4 5) 6 WK)

?24 B ( ) < B< 4B4 ; < B< / : B<2<) ' G 05) $4 5) K ZW)

<C94 B" ( ) % 09<0 ; ' G 2 : ; C 0B" 405 ! "44"5 ; 422) ' G 05) ! " : " + 4 ") K W W) <5 6 5<A9 G 2) < <-<2=4 ") 0)) (< Aa -) K ZW)

4? ; ( ) % 09<0 ; ' G 2 : ; C 0B") (<C<25C 0B : 2B 94 N>"< 5" >) < 0 2) K U) < ; 422 6) ' <0B2 4 5@94"0 ' : 5" % <B<) (< Aa -) K)

(4 ; ; 5) c - < ; < 5"< ' ! ; B") $ < : j5) 649 C : 9<) 0) D2G D) <@< ; C< (K Y) Q

<2B<055 92 4 "9 0B? (/) ' <B @9 G 2 <2"a) (< Aa -) K Y (

S 3 4 ' / 4A B 5" 45 < 0 2) K Z)

$400 4 2) $ B <@< ' 04 <5A 2B42@< 2BB "< B< 400<? 42B ($4 5) K K)

! @9 ; B" %< 55< <05) ' <B @9 <N"a) 2< - 4A9 <) 0)) $ 4 - : <) K UW)

! @9 : 0a < ; 422) < ' < 9< ' G 2 ! "< 2 : 2B 5< 2 < <B< : " : 2 - ' : ' < : "5@9 042B 5 % <B< - <C : ") 6<24) K U)

! <AA 6) <5 : 2B 5< 2 < ^< "-<2 55<2) B B0 2 - <2) K YY)

9 9< ; (: 2") ' <0B 4 5940E) 4 0 ' 6 5<A9 (' 5" B< (- 2 < (B < 0 <"a" < 0 : ; < B< ' %400 2<2) <224) K YY)

< "5@9><( ) G 2) 425 G 2 4 - < ;) 5" 5@9 < : 2B A 0 " 5<9 < : <4"aA) 0) < 0 2) K U) 0

0 ; 422)) 4 ' a : ' : 25"<) 5") ^< "5@9))) DD)

<0 45"<0 4 2 ( ) B<) (B 45"0< <4 - 9 <" 04 A 0 " N : < <D"< < : < B<] 2 - 0 < "< < B< K K ' ' K) <G : < B<5 < : D 2B<5) 60 : 2 < K K UZ)

%< "9< ; < ((< ' < a - G 2 < @95"4B") 2 (<C<25C 0B) ! " : ""- 4 " 42B < 0 2) KW) 2 - 0 59 " 42504" 2) (2B 2) KW U)

< < C422"<2B<5< 5"< : ' / 4 5< < @95) (< Aa -) K WY) I 0 54 4@@ @<9 &<"@) I^<a5@9 = "a 6) G 2) _ ' ""9< 0 : 2 - <2 4 : 5 B<2 $4A < <2 < 2 < 5 5 0@95 5@9<2 ! "44"5 ' ; 4225) &) 4 ; <2a) K UW)

' ' - 4A9 @40 % >5 2 <""< ; @9 2B< E 45"0< <4 - 9 (4B? (2B 2 ' @ B< ?E %<00 2 - " 2 4D = <00E ! "< 2 $< "a ! <<0<?E 2< 5<24 : ' $< "a 42B <0C : @>E ' ! ' Q = / M

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<0C c@>&) ' <B @9 % 09<0 ; 2B 8 B<" C< -+ B< ; % <2< / 2- <55] 5" 5@9< ^< "5@9)))X)
:2@>< &) < ' < 9< g G ; ! <"" ; B B < B<:"5<9< ' 4-< 4: B< ; % <2< / 2- <55<) 424:) K Y)
' 2 2 < &) <:< c :<00<2 a: <5@9) B<5 % <2< / 2- <55<5) <5"< <@9 5@9< &
:2B5@94:8 #) <224) K U) J
4255 2G 00<8 6))) B<)& ; "< B<) (< 2"<5 B< <22<) <G:< B<5
<:D 2B<5)) DDD D) $4 5) K)
!@94 ; 2422&) ')) <5@9 @9" B< 0B:2- B<5 B<:"5@9<2 :2B<5 4: B< ; % <2< 2- 85<) :5 -<B @>"<: :2B :2-<B) c :<00<2) 4: ; < J5 5") 45@9<2C @9) B !< <5) 649 -) K U) (<Aa -) K U)
!@9 ; B"8) <5@9 @9"< B< B<:"!@9<2 < 455 2-50 4-< =!9 <2B B<" < < :2-5 > <-< :2B B<5 % <2< / 2-"<55<5 K K KU) eB "8 C) !"< 2 !":""-4 ") K
! <0&) 554 5 BJ9 5" < <" B< @ " N:<F 400<? 42B 4: 2- <5 B< <22<F <""< 2 @9) $4 5) K & K WZ)
(<- 2- U5 B< <22<) 94AF) 0) D (4G 55< 42B 4 ; C4 :BJ5 5" < -<2B 40< B: G[5 <@0< 4 2 5 : 5) $4 5) K W)
6 < ; 94 B & 5"& :55 4& G 0) > ! Q Q

.

)8 - B& /) ( ) < B<:"5<9< :2B) 2 0:2"5@90 J5 !"44"5=! "< C:@9) 0) 2) :G< - < B< 4: 422<& $) 5" < B: - 2G< 2< ; <:"" A4 0<9 <2"4 < <2 ' 42@<& K KZ Z) 0) 2) $4 5) K UY)
/ 40"<2C ; & /) G 2) <5@9 @9"< B< B<:"5@9<2 :2B<!G< 940"2 55< :2B 29< "5 C<5" <C:2-<2& <"@) 0)) < 0 2) K UY)
2@><2& %) 42B $) 4 00<:) C ; B ; / 40 5@9< < " 4- K K) !?C<0J5 5") ^< "5@9 (K YY)
<95<&) <5@9 @9"< B<5 !5" < @9 5@9<2 5 :2B B<05 :2B B< U5" < @9 5@9<2 A0 ; 4" @) 05) D 42B D) <5@9) B< B<:"5@9<2 <)E 4 ; C: -) K U)

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‘ ‘ # 4

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/ <-54=50 G B<5 - 55<2 <2< 405"4C5)’ < 0 2)
<R B e!@<H X 2B 2& 0 "4 ?B 5A4" 0 <<& K KU)0
%4"< 0 ‘0 ""< 5 !0C ; <05 @ 00<@" EFE 2 " 59 :5< " 2 "< 2"4 2 *5 27 2 "A2C
0 5 9<B 2 9 5 9 > ‘K WK,)
%<00 2 -" 2 A4A< 5 4" A50<? 25 ‘ I@ 2"": 2 ; 427 2 "A : C0 59<B 2 2 = B05
%<00 2 -" 2 5A4"@9<5,)’
’ ‘"9< ’ <2@9 A9 <58 ‘ "+ ! ‘QA =

(‘ $ #‘ ; !)

- 7

0@9 2-<28 :< B<)’ @ : ; <2"5 28B "5 52 ‘04‘@4 ; A4- 2<B ‘K K)’ $4 5)’ K Z)’
< 4 B& <2< 5B)’ @ : ; ; "5 5"" ‘04‘ 95 "4 00<B< %4"< 0)’ : 55<05& K W)
’ ‘ %<00 2 -" 205 5A4"@9<5 42B 4A 0< 205 <5A 2B8 ; ‘ ‘ ! ‘
Q O =

; " 2"5& ; : " !8 52)

25"42"& <2)’ 8 ; <5 5 : ‘0<5 <2"6 : 5)’ $4 5)’ K)
‘0<: ?B< 94C :0 2&)’ 4A 0B 2<2K K)’ $4 5)’ K KW)
: @9?& ; "<)’ <04" 2 5 : @@ 2@"< B< 04‘ @4 ; A4-2< B< K K)’ C5< G4" 2 5 : ‘
04‘@4 ; A4-2< B< K KU)’ ’ 4- ; <2"5& <"@)’ $4 5)& K KW W)
: -4 : B& <2< 40)’ (4‘@4 ; A4-2< B< K K)’ $4 5)’ K K)
(4‘ ‘4?<""<& 4 N : 5 B<)’ 8 ; A5)’ $4 5)’ K Y)
< @< & <2< 40)’ 6 : 240 ‘"9< % 4"< 0 ‘ 4 ; A4 -2)’ (2B 2)‘ K Y)’
0 2-& <2< 40)’ :5 ; < 2< ; ‘ (<C<2)’ < 0 2)’ K K)
$0 "9 &)’ G 2)’ / <-‘ -<-<2‘ ’ 42> < @9‘ ; ‘649 <K K)’ < 0 2)’ K K)’
! 94= / <22<B?& <2< 40)’ "<5 2‘ % 4"< 0)’ (2B 2)’ K W)
! C ; <&)’)’ %4"< 0 ‘ (<""< 5)’ (2B 2)’ K WK)
’ ‘"9< < ; 5 ‘ 94"<4 : C 42B& ‘Q =‘ ‘ ‘/# . ‘ ’ ‘"9 5<
‘ <""< 2 @9& ‘ ! ‘Q =

;)‘ (‘ % / !)

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4A< - : <&)’)’)’ (<5 <2"6 : 5)’ $4 5)’ K ZK)’ 8 8
94 45& (<: "<252" 0 2<0)’ 5" <B< 04‘ 4 ; A4-2<B< K K)’ : 55<05)’ K)

9<52<?& 0 2<0) %4"< 0 (<@": <5.4 5":B? "9< @4 ; A4 -A K KU
(2B 2) K)
04 : 5<= "a& <2< 40 /) G 2) < ' BBa : -' G 2 K KU) 2"< 0455<2< %< ><&
G 0) < 0 2) K U)
: B< @ B< ! " 94 ; 42"&) (<5 B< ; 8 <5 4 ; B<5 B< 4A 0< 2) $4 5) KW)
4 ; "a&) G 2) "<5@9 @0 "< B<5 ' <0Ba : -<5 G 2 K K) < 0 2) K Y)
: 554?<&) K KU) KE (4 A < ; < < <5"42 4" 2) (<5 <2" 6 : !) Z "9 <B2)E
E %4"< 0) Z "9 <B2)E E (4 5<@ 2B< CB @4" 2 B< 4A 0< 2) "9
<B2)E ! G 05) $4 5) KW U)
(4 : BJ 2G< -2<& 0) e) ' ": B<5 5 : 04 @4 ; A4 -2 B< %4"< 0 & $4 5) K U)
(<"" = 9<@>&) G 2) 4A 0< 2J5 2"< -42-& K KU) < 0 2) KW Z)
(C<28 ! <05&) G42) $ B@ 5 B< 04 @4 ; A4 -2 B< K KU) 9< 4- : <) K ZW)
5& %) J) 9< 4 ; A4 -2 K KU) (2B 2) KW) a
00<@9&) G 2) A<0Ba : - G 2 K KU) < 0 2) K U)
! C 2<& %) 5" ? '"9< %4 ' 2 ' 42@< 42B <0- : ; ' 2 K KU) (2B 2) K Z)

8 0 < $ K *

B B< J 2&) < ; 0 "4 < B2 82B % ?) $4 5) KW)
<0 < "8 & : 4" 22B 5< 2< 0<"a"<2 / 9 ; A <) <224) K Y)
' "9< < ; 5 (G<5 4A 0< 2& %<00 2 -" 2& 0 @9@ & 2< 5<24 : &
: @9?& : 4"& <?& ! : 0"& <"@) " "+ ! 'Q =

! 0 ")

<4 ; 59&) () 8 ? '"9< / 2 -J5 < ; 42 (<- 2) G 05) (2B 2) K Y)
(<><& %) (B ! <4" 2J5 <- ; <2" 4" %4"< 0) (2B 2) K Z)
$ 0 : -> 4 "" ; -& 6) G 2) -<! @9 @9"< B< ! @904@9" C< 04 <00< 00 42@<)
< 0 2) KW)
5<& 6)) 4A 0< 2 @ ! ": B <5) (2B 2) KW Z)

<<G<?' $4A< 5&' 9<)' B "<B'C?' ! ') 4D=<00)' 0)')' (2B 2)' KW)'
J C04?&' 4B422<)' 4 ?' 42B' (<""< 5)' B "<B' C?' :5"" "' C5A2)' ' G 05)'
(2B 2)' KW Z)
5> 2<&')' !A<<@9<5)' Z'G 05)' (2B 2)' K ZY)
' "<5@:<& 6)&' 42:5@ A"5')' 8'G 05)' (2B 2)' K W W
0@ "&')' < ; 5)' 'G 5)' (2B 2)' K K)
22"&' <2 ?)' < ; 5)' 'G 0<)' (2B 2)' K)
:5> 55 2& %)' !A<<@9<5)' 0)')' (2B 2)' K K)
/ 2 -9"&' 55')' :" C - 4A9?)' 'G 05)' (2B 2)' K K)
(<<B5&' :><')' $ 0 " @40' < ; 42B4)' B "<B'C?')' =2 2-)' (2B 2)' K Z)
$4A<2B <>&' 5)' 6 : 2405)' 'G 05)' (2B 2)' K Y)
$04@<&' ')' BB " 240 - ' " 59' :5<: ;& YY W Y UW)
; 00?&' ! '!)' < ; 5)' 'G 05)' 0 2B 2)' K Z)
5<&')' 4 <5'42B' <5A 2B<2@<)' 'G 05)' (2B 2)' K)
!9< B42&')')'M !A<<@9<5)' 'G 05)' (2B 2)' K K)
%40A 0<&')')' <@ 00<@" 25' '"9< (<' ')'6)' ' D)' (2B 2)' K)'
% 0C< @<&' %)' <5A 2B<2@<)' 'G 05)') (2B 2)' K Zc)
' $ G4"<' $4A< 5)' (2B 2)' K WY)
% 2B94 ;& %)' 4 ?)' (2B 2)' K)
' !A<<@9<5)' 'G 05)' (2B 2)' K K)
:2-&' "9:)' :" C - 4A9?)' (2B 2)' K W)
)' ' '"9<' < ; 5&' <5A 2B<2@<&' '!A<<@9<5' ' :><&' 4 ; 2-&' ' D&' $ ""&'
45"0< <4-9&'42B'"9<' 4 <5'<"@)' ' 40 ; <5C: ?&' 5<<' ! 'Q =

(' % / !)

2 2 ")

5@9&')' <5@9 @9"<' G 2' 2-042B' 0)' W)' "94)' K W)
4 >&')' 0 ' <2": ?' '! "" 59' 5" ?)' 'G 05)' B 2C: -9)' KW K)
:22 2-94 ;& %)' ="9' ' 2-0 59' 2B:5" ?' 42B' ; ;< @<' 2' B< ;' ; <5)'
$4 "')' 4 ; C B-<)' KW
; 42&')' 5" ?' '"9<' " 59' ; A <' 2' "9<' 0j"9' <2": ?)' ' G 05)'
(2B 2)' KW Z)' V
=<00&' !)' 5" ?' 4D4" 2'42B' 4D<5'2' 2-042B)' 05&'2 G)' (2B 2)' K)'
<0B&')' =<' @9< 'B< '5 85 40<2' <5@9 @9"<' 2-042B5)' (<Aa -)' K K)
(<= 5&' ! ')' 2<=400)' <5425 2' "9<' B ; 2 5" 4" 2' ' <4" "4 2&' KY '
K)' (2B 2)' K Z)
4@> 2" 59&' ! '6)' 5" ?' ' G 0 54" 2' 2' !@ "042B)' <=' <B2)' Z' G 05)'
$4 50<?)' K W
><&')' 5" ?' '$ @<5)' 0)')' (2B 2)' K)
4 00&')')' ! @ 40' 2-042B&' 0)' G' (2B 2)' K W)
' '"9<' <2< 40' 5" <5' ' 2-042B' C?' B 0A9:5&' (<@>?&' 4 " 2<4:& 455<?&'
42B' 4?!5' 25" ":" 240' 5" ?&' <<!' ! 'Q =

!< &

; 9< 5"&' %)' 6)' 5" ?' ' 4"9 0@' ; 42@ A4" 2)' 'G 05)' (2B 2)' K)'
' "<5@:<& 6)' 9<' " 59' ; ?&' KY K)' (2B 2)' KW U)
' D : 2<&')')' 2-0 59' <=5A4A< 5)' 0)')' (2B 2)' K Y)
4 5&' %)' 5" ?' '"9<' 4B @40' $4 "?' 2' $4 0 4 ; <2")' (2B 2)' K U)'
6<A95 2&')' 9<' $04" ; &' "5' 5<42B' $ - <55)' 0)')' (2B 2)' K W)'
/ <CC<0&')')' 5" ?' ' ? 5 ;)' (2B 2)' K)
/ <2"&')' 9<' 2-0 59' 4B @405' (2B 2)' K WW)
8= ; 4 9&' %)' 2' "9<' (425' 4 5<B' C?' '$ "" (:B 2)' K UU)

)' XX)' &

Q = K

<25 %)) < ; (B <0C : 2<) (2B 2) K W)
= 55) (< (B B 2) 05) # 2) (2B 2 K ZZ
%40045 494 ;) (< ' 42@ 5 $04@<) (:B 2) K W)
% 46A 0< !) (< !A<2@< $< @<G40) G 05 (2B 2))K YZ)
% < - 400 (4B? < < ; $ 2@<55 94 0 " < %40<5) 0(2B 2) K YZ)
% 0C< @<) 42B) (< % 00 4 ; % 0C< @<) 05) G) (2B 2) K)
% - 9") % >5 0 4?) (2B 2) K YZ)
' - 4A9 @40 % >5 2 45"0< <4 - 9 0 5 2 (2B 2B< ?E $ "" 5<C< ?
!"429 A<E 422 2 - !"4A0<" 2E ' D :55<00E :-94 ; J5 H ! "4"<5 ; <2 J 42B "9<
@" 24 ? ' 4" 240 - 4A9?H<4 ! Q =

) 3 (&

$ # !)

; / 06)

4 2 - " 2 6 249) 5" @ < ; 5 <042B) G 05) (2B 2) K)
5< 42B $40 "9k 59 4" 2 $4 5) K)
04 <2B 2)) <G<2 : < 42B 242@<5 <042B) (2B 2) KYWK)
<C4"<5 "9< 59 :5< ; ; 25) 05) D DG2 " 00 KYWYE) :C0 2)
; ; <")) <042B :2B< 2 - 0 59 :0<) 0)) AA<2B D 4 ?)) ; ; <" 2 $4 5 K Z) <=# >) KW) #
4""42) 5@<0042< :5 % >5) (:B 2) K)
/ 2 D) 554?5 2 "9< $ 0 " @40 @: ; 5"42@<5 <042B) (2B 2) KYWW)
4@2<G<2 %) 6) $ <@<5 59 5" ?) <=# >) K Y)
<=<294 ;) <=" "9< 4": 40 $ 0 " @40 42B ; ; < @ 40 @: ; 5"42@<5 <042B) (2B 2) K Z
$0 =B<2 ') 5" ? <042B " "9k 2 2) (') (2B 2) K W)
5" ? <042B K K K) G 05) :C0 2) K KK)
!<=4 B %) 00<@"42<4 C< ; @4 G 05) :C0 2) K K)
%4>< <0B) @@ :2" <042B ! "4" 5" @40 42B $ 0 " @40) G 05 (2B 2) K K)

4

><) - : ; <2"5 42B 48 25" < 2 2) :C0 2) KYW)
B 2 6) 5" ? "9< <C<00 2 KYW) :C0 2) K K)
4?) 5" ? 00D< 25 : <@" 2 "" %<D B) :C0 2) K)
:8 4G< <C<00 ""5 2 <042B) :C0 2) K)
$< @? ! @ <"?) 0) DD) ! 2 - 5 0""5" 4" 2 - "9< ' <2@9 2G45 25 <042B)
(2B 2) K ZY)
<A "5 "9< ! <@ <" ; ; ""<<5 "9< :5< ; ; 25 42B :5< (B5)
:C0 2) KYW &
!" @> 59 A 6) 4 4" G< =94" A455<B 4" / 00404) :C0 2) K)

- $

4 2 - " 2 6 249) $< 5 240 ! >< "@9<5 5 =2 ; <5) G 05) (2B 2) K Y)
< <5 B 6) <5A 2B<2@<) 0) (2B 2 K UZ)
? 2< 0<5) < ; 5) 0)) $4 5) K)
94 0< ; 2" 4 0) 42 :5@ A"5 42B <5A 2B<2<<) 0) 2) (2B 2) K WZ)
0 2@: ?(B) $< 5 240 <@ <@" 25) :C0 2) K ZW)
)A 2=4 5 4 N : 5) <5A 2B<2@<) 05) : 2) (2B 2) K UW)
: 42 6) $) !A<<@9<5) :C0 2) K ZU)
B-< = "9) (< ; 5) G 05) (2B 2) K K
' 5"< 6) !A<<@9 2 "9< 2 2) :C0 2) KYWW)

@)) ' X)) DD 2)

!

7 8 9 ! > ? ' 5 5 5

' ! ' $)'

& ; & # ' #' ! ' ' KY U 3 JK KU)

$ (! ' ()

<5 B<5' 4' 2 : ; C< ' ' - ' C<0 2 - 2 -' " ' $ "<@"<B' !"4"<58' "9< <' 5' 4' ; 455' '
B @2 ; <4"!E <04" 2 -' C "9' " ' "9<' 4 9" 5' ' 4" G<' < " <5' 42B' " ' "9 5<' ' "9<'
45"' 2B 4' ; A42?% 2' "9<' @<5' ' "9<' B < <2"' <A4 " ; <2"5' 4"' 90@2""4% 4B 45%
42B' ; C4?% ! ; <' ' 1 <5<' 94G<' C<<2' @40<2B4 <B' 5<<' CB = Ej ' 5 ; <' 4 <' 2' A @<55'
' <D4 ; 24" 2)' <5 B<5' "9<5<' "9< <' 5' ; :@ ' 2' 2 -042B' 2' A G4"<' 45' =< ' 45' 2'
A : C0 @' <25" B?% 2 "4C0? 3
(<""< 5' 42B' 4 <5' ' % 4 ; ' 45" 2 -5% C<0 2 - 2 -' " ' 55' % 2 "< % ' % " 2'
400% ! "<<A0<' 5" 2' 2 = % ' 59 "0?' " 'C<% " 425 < <B' " ' "9<' @" 4' 4 0% 40@ : ""4E)
(<""< 5' 42B' 4 <5' ' ! ' < -<')' 4 0 =% 2' "9<' A 55<55 2' ' 4 ' ! ')'
%)' %)' 4 0 =% 4 ") %))
KE' 2' "9<' 2B 4' @<.
9<' : '" 2 : "<5' ' "9<' 45"' 2B 4' ; A42?% " < ' 5A4"@9<5 " ' 2B 4% 42B'
"9<' <A0 <5% Z' G 05)' ' % <00<50<?' $4A< 5)' ' 59< ' $4A< 5% 5@<0042< : 5' <@ B5%
42B' "9< ' < <@" A25% 5 ; <' 20?' @40<2B4 <B' 2' 25)F G 0)' a D' ' "9<' 5@<0042< 25'
<@ B5' 5' <5A<@ 400?' 2 "<= "9?)
E' 2' "9<' " 59' : 5<: ; ' 0
' - <4"' ; 55' ' B @: ; <2"5' <04" 2 -' " ' "9<' 4B ; 2 5" 4" 2' ' % <00<50<?% 2@0 : B 2 -'
4@@ : 2"8' ' ! <@ <"' ! < G @<' ; 2<?% A G4"<' 42B' @ 40' <5A 2B<2@<% 2 : "<5' 2'
"9<' ' 242@<5)' ' 2 : ; C< ' ' 0<""< 5' 42B' A4A< 5' 2' "9<' A< B' K)

$ #' !)

0 4))

<2 -40' !)' <@ B5)' ' 5<0<@"<B' 5< <5' ' KZ%K ' 0<""< 5' 2' "9<' 4 B' ' <G<2 : <%
40@ : ""4% KY 8K Y)' B "<B' C?' ! ' %)' %)' : 2"<)' (2B 2)' Z' G 0<)' K WZ)'
' 2<5"%)' %)' ! <0<@" 25' ; ' "9<' (<""< ; ' <"@)' 2' "9<' ; C4?' ! <@ <"4 4"% 4 B"94'
! ; B<5% A0)' ' ; C4?)' K !)
' 42@>0 2% %0)' ' 5" ?' ' "9<' < -2' ' ! 949 : 0: ;)' (2B 2)' KYW)'
40@ 0 ; % ! ' 6)' 9<' $ 0 " @40' 5" ?' ' 2B 4' ; ' KY Z" ' K)' ' G 5)' (2B 2)'
K)' J
3 3 ' ' < ; ' ' ; " 40' 2B 4)' ' G 05)' (2B 2)' K)
0 ! @ ""% 6)' ' < 59"405' 5" ?' ' "9<' <>>42)' ' G 05)' (2B 2)' KYWZ)
B% 0% 6)' 22405' 042B' 2" N : " <5' ' 4 45"942% ' "9<' <2" 40' 42B' % <5"< 2'
<' 4 A '" ! "4"<5)' (2B 2)' ' G 05)' K W% K)
% 0>5% 0)' 4 >% 5" @40' ! ><"@9<5' ' "9<' ! : "9' ' 2B 4)' (2B 2)' K KY)

% , , U 3

Z ' $ ' ; %

% +6

% R% a! &

4@4 "2<?& 604 0 ' ! ; < 4@@ : 2" < ' "9< A : C0 @ 0 < 4' 5<0<@" 2' ; ' "9<
: 2A : C0 59<B' = " 2-5' '"9<)' ='A# 4 =)' 'G 05)' (2B 2)' K Y)'
4@A9< 5 2& ! ' 6 92& 4 "j @ : ; <2"5' <DA 4" ?' ' " "< @45< 8 45' G< 2 '
<2< 40 ' < 8 0)' (2B 2)' gK)E
' A?' '4' (<""< ' " ' "9< : " ' <@" 5& : -)' B&KY & A 2"<B' C?' B<
'"9< :5< ' ; ; 25)' (2B 2)' KY)

B ' ! ' 6

2=400 5& <5A 2B<2@< ' 94 0<5& ' 5" 4 N : 5)' B "<B' C?' p)' 55)' 'G 05)'
(: B 2)' 2B' <B2)' K UW)
4 2-" 2& 6)')' 240?5 5' '"9< <2-40 <- : 04" 25)' 'G 05)' 40@ : ""4)' K KZ KU)'
<2 2 8& 4 '6)' 9< 4 @9<5' '"9< " 59' ; ?' 2' "9< $<2 25 : 04' ' 2B 4)))
" 425 ; ""<B' C?' 4 0 2=400 5)' (2B 2)' KYW)
: 5< 2-9" 2&)' %)' 55< "4" 2' @ 2@< 2 2-' "9< (42B<B' $ A< "?' ' <2-40)'
(2B 2)' KYWK)
< -2 ; : "9& 6 92' 5"E (B)' < ; ' '"9< (< 42B' <5A 2B<2@<)' 'G 05)'
(2B 2)' K Z)
A : ' ! : 0"42& 5" ?' '"9< < -2' F' = ""<2' 9?' ' : 55< 2' ' / 942' / ; 42 F
" 42504"<B' ; '42' - 240 $< 5 42' - 'C?' 0)' %)' 0<5)' (2B 2)' K ZZ)
3 3& ! <0<@" (<""< 5) 08 "<B' C?' %)' / >A4" @>)' (2B 2)' K K)

2 ' +' %B=<2' 6 !

" @0<5' <D9 C "<B)))4-4 25" %4 <2' 45" 2-5& 5N)' (2B 2)' KY)
0< -&)) < ; 5' '%4 <2' 45" 2-5)' 0)' :)' (2B 2)' K ZK)'
5" ?' '"9< 40 '%4 <2' 45" 2-5& 5N) (2B 2)' KYW)

4 " 2& 2"- ; < ?)' <5A4"@9<5& 2 : "<5& 42B' <8 2B<2@< ' " 9< 4 N : <55'
%< <50<?)' U 05)' (2B 2)' 2B' <B2)'E K Z)
@94 : B& 6)' 5" <' B : ' A - <5' <" B< 04' @9 : "<' B< ; A <' B< ?5 <)' $4 5)'
K K)
< ; 4 >5' 2' "9< D"<25 2' ' < " ?' 2' 2B 4)' 2 2)'E (2B 2)' K K)
?40 ; ; 55 2' 2' 5" @40 ! !)& ! D"9' <A ". ' AA<2B D' ! ') ! " 4B <?)5'
! !)E)' (2B 2)' K YY)
I%<00<50<?& & 4 N : <55)_' "<5' <04" G<' " ' "9< 04" < 4254@" 25' 2' "9< 49 4""4'
; A <& ' " % 00 4 ;)' K)
%< 2-" 2& 5A4"@9<5' ' ')')' "9< : >< ' 2B 4E)' B "<B' C?' 0)' 6)' "" % B)'
(2B 2)' K Y)

" ! Q # Q B# ! ' ! #

' ! 9 " < <2@< '"9< @ 2B : @" ' 9< G 0 ! = G42"5' ' 4B 45)' (2B 2)' K K)'
; C 5<&) ( ) ' 0<""< ' 2' "9< A <5<2" @ 5 5' ' 4 4 5' 2' 2B 4)' (2B 2)'
IK Y)
5 4" @' <5<4 @9<5& ' 4254@" 25' '" < ! @ <"?' 25" "2 <B' 2' <2-40)' 0)' D)
! >< "@9' '"9< ! >95& 9?' ! '6 92' 40@ 0 ; & AA)' KWY 5NN)E 40@ : ""4)' K K)'
4 0 =& ! '))F 'C < '5><"@9' '"9< 5< G @<5') (2B 2)' K KK)
J 4 0 =& ! '))_' C5< G4" 25' 2' (") 0)' 40@ 0 ; J5' A : C0 @4" 2' <04" G<' " '"9< '
5" : C42@<5' 2' "9< 4B 45' ; ?)' (2B 2)' K K)) '
: -9" 2&)) (<""< 5' % ""<2' 2' 4' 5 4""4 @4 ; A' 2' "9< ?<4 'K W)' (2B 2)'
)K K)

?B-<5 !) 6) 4 4@@ :2" "9<" 4254@" 25 9 5 4<5"?!5 55 2 " "9<
"8 < ! 4 K Y KK) (2B 2) K Z
494 ; 8 4 I (4B? 400@ "") 6 : 240 4 <5 B<2@< 2 2B 4) K W K KK)) 2B
<B2 B 2C : -9) K K)
40@ 0 ; ! 6) C5< G4" 25 2 "9< 5": C42@<5 2 "9< 4B 45 ; ?(K W)
(2B 2) K K)
$ @<<B 2-5 9 << : "5 4 " 40 4" 42-40 <) 4B 45) K K)

O !

! : C5"42@< "9< 5A<<@9<5 % 00 4 ; % 0C< @<(5N)(2 "9< @04 : 5< "9< 45"
2B 4 00 A ; " 2-"9< <0 - :5 25" :@" 2 42B ; 40 ; A G< ; <2" "9<
24" G<5 "9< "59 B ; 2 25 2 2B 4) (2B 2) K K)
! : ; ; 4 ? "9< B ; 2 5" 4" 2 "9< 2B 42 G< 2 ; <2" 9? "9< 4 N : <<5
45" 2-5) (2B 2) K Z
$ 25<A( )) 5" ; ?)))"9< B ; 2 5" 4" 2 "9< 4 N : <55 45" 2-5(K K
) G 05) (2B 2) K U)

8 9 / ! " !=

; 5 B< 4" B25 2 "9< B 4 2 - <))04 ? 2 - A<2 "9< " 4B< B"9 2B 4 42B 9 24)
(; B 2) K K) 8
<5A 2B<2@< 42B $ @<<B 2-5 2 "9< 8@ 4" 25 1 < <2<=40 "9< 45"
2B 4 ; A42?!5 94 "<) (2B 2) K K)
45" 2B 4 G< 2 ; <2" 42B ; ; < @<("9< $ <5<2" !?5"< ; : (@ 25 B< <B)
(2B 2) K K)
45" 2B 4 ! 9 AA 2-) = (<""< 5 2) (2B 2) K)
' "9 <A " "9< ! <0<@" ; ; ""<< "9< :5< ; ; 25 2 "9< 4 : 5
"9< 45" 2B 4 ; A42?) (2B 2) K K))
42"( ) 0 9< <DA<B <2@? @ 2" 2 : 2-"9< 5?5"< ; C? = 9 @9 "9< " 4B< 42B - G< 2m
; <2" 2B 4 4 < <- : 04"<B) (2B 2) K K)

" = !

B ; < ( ) 6) "B<5@ A" 2 <?0 2) (:B 2) K Y)
! '<00 =<5( )( )) 9< 5" ? <?0 2 " K KU) (2B 2) K KY)
4 4" G< <G<2"5 =9 @9 94G< <@<2"0? @@ : <B 2 "9< 5042B <?0 2(= ""<2
C? 4 -<2"0< ; 42 2 "9< 5A ") (2B 2(K KU)
!"< : 4 "(6) "<5 2 <?0 2 42B "5 4 " 5) (2B 2 A G4"< @ @ : 04" 2E) K)

(% / !)

2"@ (! %) %) < 5" ? "9< 2B 5 ; $< A0<5) " <B2) D B)
K W)
/ 4?<(! B) %) 9< B ; 2 5" 4" 2 "9< 45" 2B 4 ; A42?) (2B 2) K U)
(?400(! ")) 5< 42B DA425 2 "9< " 59 ; 2 2 2 2B 4) B <B2)
(2B 2) K WZ
K # ' 9< 5" ? " 59 2B 4) ' "9 <B " 2(= "9 2 "<5 42B 2" 2 : 4" 2(
C? 4@< 4? ; 42 % 05 2) W G 05) (2B 2) K U)
% 05 2(<@>0<5) (<B-< 42B ! = B "9< 2 : 4C0< ; A42? < @942"5
2-042B " 4B 2-" "9< 45" 2B <5 KUUW K YZE) G 05) (2B 2) KW)
% 05 2( )) 9< 5" ? " 59 2B 4 ; K U " K U) G 05) (2B 2)
K U) S

) DD 2)

1

0' !9494 ; <") 00 <' 5" ?' ' 494=40A) 0 * B 2) K Z)
4B<2 $ =88')) 9< (42B' !?5"< ; 5' " 59' 2B 4) 'G 05) D B) K W)
4 2<5& 6)) ; =""<< ' '"9< ; C4?' $ <5 B<2@?' $4 " H (')' $4 " K)
5" ?' ' 2 4 ")E ; 2C4?' K W)
40B=<00& "' <G)) ' $ 0 " @40 42B' <2< 40 5" ?' '"9< B 5" @"' ' 22<G<00?)
4B 45) K K0)
; A" 2&) 'A4 " @ : 04 '5@@ 2""""' '"9< "" A<" ' 0 "4 ?' BG<2" : <5' ' 2B2 '
5" 2) KY Z K) (2B 2) K W)
: "& 4 ') 5" ?' '"9 ' ! >95) 2 ; 4" 2' '"9< ! >>9 2' B< 8' '
>9 B) (49 <) 8)
42G< 5& ')) <A ")))) 2' "9< $ ": - : <5< <@ B5' <04" 2 -' " ' "9< 45"' 2B <5&
@ 2"4 2<B' 2' "9< <'B<0' ; C ' 42B' "9< A : C0 @ 0 C 4 <5' 4"') (5C 2' 42B' G 4)
(2B 2) K W)
' 9< $ ": - : <5< 2' 2B 4) 'G 05) (2B 2) K WZ)
: -9& 4 '%) ! 'C < ' 5" ?' '"9< 9 AB0 $ 2@ A40 "?) 40@ : ""4) K ZU)
: 2"< & ! ' ' ' 9< 22405' ' : 40' < 2 8) (@2 B 2) K) &
(?400& ! ')) 5 4" @' !" : B <5) 0)' @4A& Y& 9< 4 AB"' !"4"<5E (2B 2)
K WW)
!<" :' / 4 & %) !) !<0<@" 2' ; '"9< 8@2""4' 4a<""<5) U G 05) @ : ""4) K)
400<5 2&))) ' 240 ' <2@9' !" : - -0<5' 2' 2B 4' 42B' 2' "9< 2B 42' 5<45) (2B 2)
K Y
! : <2B 4' 4"9' ?) ' 5" ?' '"9< 4" G< !"4"<5 ' 2B 4) 0)' K) =4)
40@ : ""4) K)
<22<2"& ! '6)) <?0 2) 'G 05) (2B 2) K UW)
I% -9"& 42 B)_ 8 ?' ' <A40& " : 2@4"<B' ; '"9< $4 C4" ?!) 4 ; C B-<)
K YY)

9 66 4 $O

C : "92 "& ! ') 6) ! ' 9 ; 45' : 2 F 5<0<@" 25' ; ' 9 -' 2 : "<5' 42B' "9< '
= " 8' 'G 05) (2B 2) K K)
= 2-& #) 4 B4 ' '42B' A : ' ! : 0"B2) : 0< 5' ' 2B 4)E D B) K W)
4B594=& 6) ! ' 9 ; 45' : 2) : 0< 5' ' 2B 4)E D B) K WZ)
0<C ><& ! ')) (< ' : 2"5" : 4 "' 0A9 25" 2<) 'G 05) 22B 2) K Z)
"" 2& 6) !) : 2"5" : 4 "' 0A9 25" 2<) : 0< 5' ' 2B 4)E D B) K W)
0< -& <G))) (< '! ' 9 ; 45' : 2 & /))) 2B' <B2) 'G 05) (2B 2)
K K)
2& ! ' (<A<0) 42 "' ! 2-9) : 0< 5' ' 2B 4)E D B) K W)
: "" 2& %)) 9< 4 N : <55 % <00<50<?) : 0< 5' ' 2B 4)E D B) K W)
/ 4?<& ! '6) %) 04G<5' ' 2B 42' @< 5) ! G 0 !) (2B 2) K) 0
' 0 <' '! '6 92' 40@ 0 ;) 'G 05) (2B 2) K UU)
/ <<2<&)) B94G4' 4 ' ! 2B9 4) : 0< 5' ' 2B 4)E D B) K WK)
2" & : 2"<55) (B' 2" ' 2' 2B 4& 0 <' 42B' (<""< 5' ' 0C< "' 00 "&
' 5"' 4 0' ' 2" & = 9 0<' " G< ; <2< 40' ' 2B 4' ; ' - g' " ' K KZ)
(2B 2) K)
5& <2 ?) (< ' 94 0<5' 42"") (2B 2) KW Z)
$<4 @<&)) 0 <' '"9< 4 N : <55 % <00<50<?) 'G 05) (2B 2) K Z)
55' ' 04B<25C -& 4) 9< 4 N : <55' ' 45" 2 -5) : 0< 5' ' 2B 4)E
D (' K W)
! 0<< ; 42& 4 <2< 40' ! '%)) 4 ; C0<5' 42B' <@ 00<@" 25' '42' 2B 42' @ 40)
<='<B " 2' C?')) ! ; "9)E 'G 05) (2B 2) K W)
""< & 4A") ( ) 6) %4 <2' 45" 2 -5) : 0< 5' ' 2B 4)E D B) K W &

Q + =# Y

2)8 (!& KY K KU)

(% /!)

:-94;&)& (B) 0 2 40 $ 0@? : A<42 $ =< 5) G 05) B 2C: -9)
K)
-< " 4&)) !9 "J 5" ?
3 3 0 < - 2 42B ="9 "9< 2-0 59 0 2 <5& 42B "9< 5?5"<;
G< 2;<2") D B) KW) 2" B:@" ? G 0) " (:@45& 5") < - 4A9?
5<< C<0 =E)
6 5<& %J 2 ="9 "9< ;A <) (2B 2) KW K)
(:@45&)) 5" @40 < -8A9? "9< " 59 0 2 <5) G 05) D B)
K Y WY)
4942& *) 2 0:<2@< !<4 $ =< :A 2 "9< ' <2@9 <G 0:" 2 42B ;A <)
KYW K K 0 G 05) (2B 2) K W)
BB& 0A9) $4 0 4;<2"4 ? G< 2;<2" 2 "9< " 59 0 9 5) (2B 2) K)
% 25 & & 4 4" G< 42B " @40 5" ? ;< @4) 0) G "") 5" 2) K W)
^ ;;< ;422&) / 0 2 40A 0" > 55C "422 <25) G 05) < 0 2) K W)
'<= (<@9?!5 5" ? 2-042B& 42B "9< @" 24 ? RH 4" 240 - 4A9?&
5<< S

! $ /

7 , $

! 9< <@ B @< 0 2 40 <5A 2B<2@<& <= ! :"9 %40<5& 5) K YUE
@ 2"4 25 "9< B<40 2- = "9 "9< ?<4 5 KY K KZ) 42? "9<;<;A "42"
<4 0?B @:;<2"5 4 < 5<" :" 2 4 " 2&)) 5" ? <= ! :"9 %40<5 ;
"9< <@ B5) 0) KY W) !?B2<?) K W) " @ 2" 2:<B)E

3 !

4 " :;& $ @<<B 2-5 4 <2< 40 : " 4 " 40))) (< "<24 " 0 2<0 6 92m
5" 2) (2B 2) K KK)
<22<""& 2)))&)$) 0<""< " 5@ :2" ! B;:"9 2 "9< 425A "4" 2
(4=5) (2B 2) K KW)
S3 0<""< " 4 0 4"9: 5" 2 "9< @ 2B " 2 "9< @ 0 2 <5 2 <= ! :"9
%40<5) (2B 2) K)
=<& 6) <2< 40 5"42B 2- B< 5& 5<0<@"<B ;"9< -<2< 40 B< 5 55:<B C?
;<- G< 2 5) KYWK K) G 05) !?B2<?) K & K)
$4 0;<2"4 , $4A< 5) 9< ; 5" ;A "42" 4 < [<A "5 "9< :5< ;m
;""<< <4 "9< N:<5" 2 425A "4" 2&\ KYYW& K K F 42B [<A " 6))
--<& @ ; ; 55 2< & " <2N: < 2" "9< 4 : 5 <= ! :"9 %40<5)\ K)

" ! =

4 2-" 2&) G ?4-< " <= ! :"9 %40<5) (2B 2) KYWU)
3 8 !<N:<0 " 4C G<) (2B 2) K)
4 00 25&) 2 4@@ :2" "9< 2-0 59 0 2? 2 <= ! :"9 %40<5) (2B 2) KYW)
3 3 2 4@@ :2") !) %40<5 ;"5 5" 5<""0<;<2")))" :-:5" K K)))42B 42
' 4@@ :2" 4 = A< " ;<B C? 4A"4 2 '0 2B< 5 42B 455)))4C5" 4@"<B
;" "< 6 240 455) (2B 2) K)

) D 2)

: @<"H)) ' : 2B4 ; <2"40 A 2@ "0<5 '"9< 04=5 ' 424B4) 8 <D" 42B 0 "< 40
" 42504" 2 '"9< @ : 5" ; ' $4 8 <"@)E 2" <40) K Z)
45< <5(') '@ 00<@" 2 ' ; ; 55 25) R 2B :) KYY)
' 0 '4@@ : 2" '"9< A @<<B 2-5 '"9< 294C "42"5 'c : <C<@) (2B 2) KYYU)
' BB " 240 $4A< 5) (2B 2) KYY (&
S @>4005(6)) 9< ! "4" : "<5))) AA< ' 424B4) / 2-5" 2) K K)
<-2< 0 "4 < <2 424B4(KY Z <A 2"<B ; ' B ; <5 <" B @ : ; <2"5&)(
A : C0 @5 A4 '04 ! @ <"? 9 5" N2< B< 2" <40)E c : <C<@) K Y)

8 & 9 0 4%

4?( ) (<""< 5 ; ' 424B4 B : 2-' K) (2B 2) K W)
< "( ) 4G<05 "9 : -9 "9< 424B45) (2B 2) K Y)
64@>5 2(6)) <=' '"9< A 0 " @40 5 " : 4" 2 '"9< A G 2@< ' AA< ' 424B4)
0 (2B 2) K W)
(4 ; C< "(6) 4G<05 "9 : -9 424B4 42B "9< 2 "<B ! "4"<5 2 K (K Y(42B
K) 'G 05) B <B2) (2B 2) K K)
(4 @9< C : @420" (42@ : "H : < B<). 4G<05 "9 : -9 "9< 2 "<B ! "4"<5 42B AA< '
424B4 2 KYWU(KYW (42B KYWY(" -<"9< ' = "9 42 4 : "9<2" @ 4@@ : 2" ' (=< '
424B4) 2-0 59 " 42504" 2) Z G 05) 2B <B2) (2B 2) K)
(4"< < <($) B< ! 40<) B ; <5) c : <C<@) K Y)
(2-(6) ?4-<5 5 ; B " 4G<05 '42 2B 42 2"< A <"<) (2B 2) KYWK)
4@><2a <(! ') ?4-<5 ; ' 2" <40 "9 : -9 "9 ; < @4 " '"9< ' a<2
42B $4@ @ @<425(KY W 42B KYW) (2B 2) K K)
45< <5(') 9< 424B 42 <<9 0B<) 'G 05) (2B 2(KYYY YW)
' ' <G <=' '"9< - G< 2 ; <2" 42B - <G42@<5 '"9< A G 2@< 'c : <C<@ 5 2@<
"9< @ 2N : <5") (2B 2) KY)
! <0> >((B) ! >< "@9 '1 < " 59 : ' " 4B< 2 "9 ; < @4(= "9 C5< G4" 25
<9 " 2-' " '"9< "9 %<5" ; A42? ' 2" <40) X 2B 2) K K)
! ; "9( ) < - 4A9 @40 <=' '"9< A G 2@< ' AA< ' 424B4(42B A ; 5@ : :5
< ; 4 >< 2 "5 - G< 2 ; <2") (2B 2) K K)
42@ : G< ( ) ?4-< 'B 5@ G< ? " ' "9< "9 $4@ @ 42B : 2B "9< = 0B)
KYW WU) (2B 2) KYW)

2 ' : %

"> 25 2(%)) '9 5" @40 42B 5"4" 5" @8 4@@ : 2" ' <=' : 25= @>) B 2C : -9)
K ZZ
C4 : B( ) 5" <B : ' 424B4 5 : 5 04 B ; 24" 2 42-9 : 5<) 2" <40) K Z Z)
: @9<""<(6) 9< " 59 B ; 2 25(2 "9 ; < @4) 'G 05) (2B 2) K K)
: 2 " ' ! '6) 424B4 : 2B< ' " 59 : 0<(KY KW) 4 ; C B-<(KW)
' 42 : 40 '"9< 25" " : " 240 5" ? ' 424B4) 2" <40) K)
*3 $4 ($ @<B : <42B $ 4@" @<))) 2 "9< ; 2 2 ' 424B4) 2" <4 (' K W)
4B594=($) ! <0 - G< 2 ; <2" 2 424B4((2B 2) KW)
?@<( ) '59 "9 5" ? '"9< 424B 42 $< A0<) ; 2B 2) K Y)
' 42 " C4) (2B 2(K)
' 5" ? '"9< : B5 2.5 4? ; A42?) (2B 2) KW)
4 ; AC< ( ) 5"%? '$ 2@< B=4 B 5042B) 94 0 ""<" =2) K YU(
4 ; 2 ((% (5" ? '"9< A G 2@< ' 2"4) 2") K Y)
9 5" <( ) 5" ? '"9< $ G 2@< '(=< ' 424B4) 'G 05) c : <C<@) K Z UU)
<2"(6)) 9< 424B 42 A " 4 " - 400< ?F Z G 05) 2") MK K)
'0< ; 2-(6) $ 0 " @40 22405 '(=< ' 424B4 : 2B< '"9< @" K < -< (4A) K)
t K5" A4 ") 2" <4 (' K)
4 2<4 : (') X) 5" <B : ' 424B4) 'G 05) 2" <40) K K)
4 C : " 2( )) 2 9 5" @40 42B 5"4" 5" @40 4@@ : 2" ' G4 ! @ " 4) 'G 05)
40 4D) K W)
'

) 1

2B <=5 6 6 : 2<? ; : <2 5 ? <5 2 "9< ?<4 5 K U G 05) (2B 2) K Y)
$4 59 ! 8%) : <2 5 ? <5 42B "9< $ G 2@< Z< 04 $04"4) 2B <B2)
(2B 2) K U) S
$4D5 2 ') (> 2B8<2B<2@< '"9< ! : "9 ; < @42 <A : C0 @5) $9 04B<0A9 4) KW)
%4"5 2)) !A42 59 42B $ " : - : <5< ! : "9 ; < @4 B : 2-' "9< 0 2 40 A< B)
G 05) (2B 2) K Z)
% 25 6) 4 4" <42B @ " 40 9 5" ? ; < @4) @B) G ;) 5" 2) K W)

& #

" ! =

2 4@@ : 2" '64 ; ; @4)))9? 4 -<2""< ; ; 0 2 - <5 B<2" 2 "9< %<5" 2B <5) 2 2)E
(2B 2) K)
B=4 B5) 5" ? '"9< " 59 0 2 <5 2 "9< %<5" 2B <5) G 05) B <B2)
(2B 2) K K) S
< ! 06) 4 ?) 0)) 0]H2B 2) KW Z)
$4 0 4 ; <2"4 ? $4A< 5) <A " : 5< ; ; 25 ; ; ""<< 2 "9< 5"4"< "9< %<5" 2B <5) K Y)
$ @" 2 ! < ; 5) 2B <B2) (2B 2) K)
$ 2@>4 B) "<5 2 "9< %<5" 2B <5) (2B 2) K)
<22?2) 5" ? '64 ; 4 @4) (2B 2) K Y)
: 2C : 00) 4 4" G< '"9< <G 0" '"9< ' <2@9 294C "42"5 2 "9< 5042B
<24B4) (2B 2) KYWU)
% 00?4 ; 5) 2 4@@ : 2" '"9< 9 ; A4 - ; "9< %<5" 2B <5 2 KYWZ : 2B< '
! ') <? 42B ! '6) 6< G 5 = "9"9< <B : @" 2 ' 4 " 2 N : <) (2B 2) KYW)

e ' ')

B-<5) 22405 '64 ; ; @4) G 05) (2B 2) K Y)
! : "9<?2) 9 2 0 - @40 5" ? '"9< %<5" 2B <5) G 05) (2B 2) K Y)
' (: @45 G 0) E 4942 ! 4 A : =< E 42B % 95 G (' G ; E ' # " ! ,'
'64 ; <5 4G40 5" ?2 ! Q%

: 54 2 , 3 3 Q 3

" ! =

<G<2"<) ( ) G42 <" <B< 042B5@9 <a4-' G< ' 64G4 <2 2B 9 -9<B<2
5<B< " K KK) 4G<294-<) K WK)
!) G42) B 4-<2 " " BA / <22 5 G42 9<" (42B<0 >' !"<05<0 A 64G4) 0))
^40" 9 : 2< (') K U)
4 0<5) !) ! : C5"42@< '4 2 : "<) 2B 2) K KZ) 9< 2B 4 0@< <@ B5
@ 2"4 2 2 : ; < : 5 B<5A4"@9<5 ; ' 4 0<5) E
3 9< 9 5" ? '64G4) 2B <B2) (2B 2) Kj)

1

: 0-<) 04 < ' ! ' !) 4 0<5) (2B 2) K WY)
4?2) 9< A 0 @? 42B 4B ; 2 5" 4" 2 '"9< : "@9 2 64G4) <=' # >) KW Z)
<G<2"< ' G42) 4<2B<05 4 0<5) 425 C?) 4""<2) K WY)
' 8 " 2 0)) ! ' !) 4 0<5 : 0B< 5 ' <4"< ' "4 2)E (2B 2) KW)
; 42) F () < " 5@9< << 5@94AA ' G< ' 64G4 <2 2B< 9 -9<B<2
8 K KK) 4G<294-<) K UY)
$ < 5 2) ' / 0@ ; 40< $ 0 " <>) ; 5"< B4 ; K YY)
4 0A8 !) ; 2 '"9<0 <42B A : C0 @ 5< G @<5 ' ! ') !) 4 0<5) (2B 2) K)

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W

7 8 9 ! > ? 5@

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1 , , $ #

9< A4A< 5 ! : :B5 2 (=< 4 < 4"" "9< " 59 5<: ; 9< 0 2 40 @< A4A< 5 <04" 2-" ! !" <0<24 5:0< 4"" "9< <@ B @<)

- X 5

C<00 (5 <@ 00<@" 25 "9< ; A< 4A 0< 2 B4 2-" "9< 5"" "9 << ?<4 5 9 5 @4A" G "? 2 "9< 5042B ! 4 2" <0<24 (2B 2 K ZZ) 2" ; ; 4 @9 ' 5 < ; < 5 ; ; <2"5 B< 4A 0< 2 G 05 (2B 2 K U 4 2<5 6) "" : "9 : -9 "9< 5042B ! !" <0<25 = "9 5 ; < A4 " @ :04 5 <5A<@" 2- "9< 4 G40 42B B<"<2" 2 4A 0< 2 24A4 "< (: B 2 K KY) < " 42B 5 5 :< < B 5 <2"" G42" A A 5 $4 5 K ZY) : 24A4 "<5 G ?4-< " ! !" <0<24 @ ; A 5 "9< B 4 ? B ; ! @>C : ; B : 2-" 9 5 A4554-< ; 2-042B " 8 <0<24 2 K KU 5" 2 K !) <A : C0 59<B : 2B< "9< " "0< 4A 0< 2 5 045" G ?4-< (2B 2 K ' ; 2 B " (4 @4A" G "B B< ! 8 <0<2< B 4A <5 0<5 4AA "5 2<B "5 B : B4 N: 5 B< :"@9<2 : $4 5 K WZ) ' < ; <4 : D $ 4A 0< 2 A 5 22 < B ; <5 B : 2 ; <B<@ 2 B< ! !4 2"< 8<2< 6 92 !" > <E $4 5 KW K) : -4 : B ! 2" <0<2< 6 : 240 2BB "B< K KU B K K 5 G 05 $4 5 K WW 400 45 0 4 4" G< 4 G ?4-<))) = "9 4@@ : 2"5 42 2"< G <= = "9 4A 0< 2 : 24A4 "< 4" ! " <0<24 (2B 2 K Z) >& 4"5 00 : 5" 4" G< "9< " <4" ; <2" 4A 0< 2 : 24A4 "< 2 !4 2" <0<24 (2B 2 K KW) 64@>5 2 45 0 "<5 42B < ; 2 5@<2@<5 4 !"4 @< @9 < 0? <04" 2-" "9< %4" "< 0 @4 ; A4 -2 42B " ! !" <0<24 ; 4""< 5 B : 2-" "9< @4A" G "? 4A 0< 2 KW) (45 45<5 $) & ; "< B< < ; 40 B< ! 4 2"< <0<2< 6 : 240 B< 04 G < A G<< <" B<5 @ 2G< 54" 25 B< ; A< < : 4A 0< 2 4 !4 2"< B0<2< Z G 05 (2B 2 42B $4 5 K) (45 45<5 6) & 4 N: 5 B< 04 42554B< B ; <5 B< : 55<05 K K 4 "042B 4A" ' (4 4" G< "9< 5 : <2B< : 24A4 "< 42B 9 5 <5 B<2@< 2 C 4 B))! Q O ! (2B 2 K) 40@ 0 ; ((4B?) 4 ? !4 2" <0<24 B ! % 05 2 (2B 2 K WW 42 :5@ " G<2 : B< ! 8<2< B : 2< ; 42 < < 2@ 22 : < B <B2 (2B 2 K KY 042 -<5 9 5" N2<5 B @"<5 4 : ; "< B< 2 9 0 2 0 (2B 2 K)

< ; <5 A : 5 G J0 5" < B< ' 4 @< 5 5 4A 0< 28 B@ "5 ! 4 : 8<2<
5 :5 04 B @"B B< ; A< <: A4 0<5 <2B 4 :X N: 2" A4 "4-B 54 @4A" G "<
(2B 2) G 05) K)
2"9 0 2 0C<C<) ; "<55< B<) ! :G<2 5 B< !4 2"< B0<2<) B "<B C?
"" "< 0<: ?) '4 5) K K)
2"9 0 2) 6P 4 N: 5 B<) < "5 B< 04 @4A" G "B B< ; A< <: 4A 0< 2 4
!4 2"< <0<2<) G 05 $4 5) K ZY)
4A 0< 2 <5A 2B42@< B<) 0) DDD) $4 5) K Y)
J <4 48)) 4A 0< 2 2 <4" 0<F 4 @ ; ! " <0<24. C< 2-0"9< A 2 25
42B < 0<@" 25 4A 0< 2 <"@) G 05) (2B 2) K)
!42" 2) 2 4AA<40 " 9< " 59 4" ; 2 "9< " <4" ; <2" <DA< <2@<B C?
4A 0< 2 : 24A4 "< 2 "9< 5042B ! !" <0<24) (2B 2) K KY)
!" ; < ' < 9< G ;) < @9"< 4: ! !" <0<24 a2" ^< " B B " -<2 2"< 2 < : 2- 4A 0< 2 24A4 "<5 K K K) B "<B C?) ! 90 ""<) <224)
K) $4 5) K)
%4 B<2 %) (<""< 5 = ""<2 2 C 4 B))!) \ ! 42B 4" !4 2"
<0<24) (2B 2) K K)
% 0>5) 0 2<0 % 0>5 42B 4A 0< 2) = 2G< 54" 25 9<0B 4" !" <0<24 2
K K) (2B 2) KW K)

(% ! % / !)

" @0<5 2 04@>= BJ5 4-4a 2< C) 3 $ ' 2DD G @2D c :4 "< 0? <G <=
@") K K 642) K KY <@) K U Ü B 2C: -9 <G <= 0 D : G ' 4a< J5
4-4a 2< 0) D2G 28 <G :< 0<: < 4? 3K 6 : 2< K WY)
' 5?"9 %) 5" ? '"9< @4A" G "? 4A 0< 2 4" !" <0<24 ; "9< 0<"" < 5 M
42B : 2405 '"9< 04"< (<: ") <2) ! :B5 2 (=< <"@) G 05) (2B 2)
K !4
""554?<) K KU) 0 'G 05) $4 5) KW U) 9< C<5")4@@ :2" "9< <G<2"5 ;
"9< <": 2 4A 0< 2 " $4 5 4 "< %4"< 0 :2" 0 9 5 < ; C4 >4" 2)E
5< 6)) 9< <"<2" 2 4A 0< 2 4" !4 2" <0<24) 5" @40 554?5 C?
"9< ; < ; C< 5 =<25 00<-< 42@9<5"<)E (2B 2) KW)
9< ' :2< 40 4A 0< 2 42B 9 5 045" A4A< 5) h 2-0 59 5" @40 <G <=)
A 0)_
5<C< ?< 4 0 0 4A 0< 2F "9<0 45" A945<) (2B 2)
!@ ""< ! %40"<) (< 4A 0< 2 : 24A4 "< ; A< "9< ' <2@9) W G 05)
B 2C: -9) K Y) <=' 8 2) G 05) (2B 2) K W YK)
!<4" 2<)) ! :B5 2 (=<42B 4A 0< 2) (2B 2) K W)
3 4A 0< 2J5 4A" G "? 2 B4" 2 " ! :B5 2 (=<) (2B 2) KW)
! 0G<5" <) < %4"< 0 ! 4 2"<8 B0<2<) $4 5) KW Z)
559< ! '0) 4A 0< 2J5 045" G ?4- 5F 0C4 42B ! " <0<24) (2B 2) K WU)

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$ $ (‘ !‘ ‘ ‘ !‘ ( )

KYYZ‘ 9< c :<C<@ @")
<4"?‘ / 2"@9 :> / 4 24 B (‘
KY ‘ 5"‘ ; <B‘ <:" 40 "?)
KY Z !<A4 4" 2‘ ‘ <=‘ :25= @>‘ 42B‘ 4A< <" 2‘ += % G4‘ !@ " 4)‘
‘ :2B4" 2‘ ‘"9< "9 %<5"‘ ; A42?)
KY !:AA0< ; <2"4 ?‘ I 45"‘ 2B 4,‘ @")
KY ‘ :2B4" 2‘ ‘4‘ @ 0 2?‘ 4"‘ !?B2<?‘)!)%)E‘ K8‘ 4_A"4 4‘ 9 00 A)
4B 2-‘ 5<""0< ; <2"‘ ; <B‘ 2‘ ">4‘ ! :2B)
40‘ ‘%4 <2‘ 45" 2-5‘ A8<25)
KY W @@<55 2‘ ‘ !<0 ;‘)
DA0 4" 2‘ ‘"9< 4="<5C: ?‘ 42B‘ <A<42‘ G< 5)
KYW $<4@<‘ ‘%< <04‘ :55 4‘ 42B‘ !=<B<2E)
KYW U‘ ?4-<‘ ‘ 42@ :G<)
KYWK‘ :5" : > 59‘ <4"?‘ 4"‘ ! 5" G4)
9<‘ 25" ":" 240 @"‘ ‘ 424B4)
<4"?‘ ‘ ""2 2-9 0 ;)
KYW 55455 24" 2‘ ‘ :5"4G:5‘ KKK)
‘ :2B4" 2‘ ‘ 9<‘ 0 2?‘ ‘ ! < 4‘ (< 2<)
:55 : > 59‘ <4"?‘ ‘6455?‘ M
! ‘6 92‘ !9 <‘ 4AA 2"<B‘ G< 2 ‘ <2< 40 ‘ 2B 4‘ S
KYW Z‘ " 59‘ < ; C455? " ‘ 9 24)
KYW ‘ 2G<2" 2‘ C<"=<<2‘ <4"‘ "4 2‘ 42B‘ :55 4)
!<""0< ; <2"‘ ‘ <=‘ ! :"9‘ %40<5)
9<‘ $< ; 42<2"‘ !<""0< ; <2"‘ ‘ <2-40)
KYWU‘ 642) ‘<C)‘ 4 0 ‘ "a= 00 4 ;‘ @< ?‘ 2‘ <042B)
‘<C :4 ?)‘ ! : <2B<‘ ‘ <?0 2‘ C?‘ "9<‘ :"@9‘" ‘ <4"‘ "4 2)
A 0)‘ @N: ""40 ‘%4 <2‘ 45" 2-5)
!<A"< ; C<)‘ ‘ 5"‘ " 59‘ @@:A4" 2‘ ‘ 4A< 0 2?)
9<‘ ‘ <2@9‘ 25" ":"<‘ <5"4C0 59<B)
KYW ‘ G< ; C<)‘ <4"9‘ ‘"9<‘ ; A <55‘ 4"94 2<‘ ‘ 4@@<55 2‘ ‘$4""‘)‘
" 59‘ @ 2N:<5"‘ ‘ < ; 4 4‘ 55<N: C‘ 42B‘ <"9 <<)
KYWY‘ ‘<C :4 ?)‘ <4"?‘ ‘ @ ; ; < @<‘ C<"=<<2‘ <4"‘ "4 2‘ ; B‘ :55 4)
@" C<)‘ $<4@<‘ ‘ 4 ; A‘ ‘ ; ‘ ‘ 42@<‘ 42B‘ :5" 4E)‘ &
KYW ‘ A 0)‘ 4 0 ‘ 2 2-" 2‘ 4AA 2"<B‘ G< 2 ‘ <2< 40 ‘ 2B 4)
6:2<)‘ 24A4 "<5‘ <DA<B " 2‘ " ‘ -?A")‘ ! : <2B<‘ ‘ 40"4‘ " ‘"9<‘ ‘ 72@9‘
&‘ 59‘ 25: <@" 2)

W + . +' *+

K Z 4 @9' 9k' ' <2@9' G 0' B<)
##' 4B ""B4 5 A0 "' D< " 2' ' "9< @' BJ 2-9 <2)
A (' $ """J5' <": 2' " ' @<)
4?& ' 42@ 8 :"@9' <4"?)
#+' 4A 0< 2' C<@ ; <5' ; A< ' "9<' ' <2@9)
<@< ; C<)' !A4 2' B<@04 <5' =4 ' 58-4 25" <4" "4 2)
P ' 24" 2' ' 4A 0< 2)
4A": <' ' <@@4' 42B' <B 24' C?' "9< %494C "<5&
<4"9' ' <aa4 ' $4@94)
< <4" ' 0 2<0' 25 2' 2' "9< 2' 2B 4)
K U A 0)' <4"?' ' !" $<"< 5C: -' C<"=<<2' <4" "4 2' 42B' :55 4)
4?)' 4A 0< 2' C<@ ; <5' / ; -' ' "40?
6:2<)' & " ' \ !' <D"<2B<B' " ' "40?)'
6:0?)' @@<55 2' ' :5" 4' " ' "9<' <4"?' C<"=<<2' <4" "4 2' 42B' :55 4)'
4""0<' ' 4A<' ' 2 5"< <)
@" C<)' 4""0<' ' 410-4)' 4A ":04" 2' ' 0 ;)
G< ; C< &' 2G<2" 2' C<"=<<2' 8 55 4' 42B' "9<' 00 <5)
P ' 4A 0<@ ; ' @@: A <5' <224)
<@< ; C<)' 4""0<' ' :5"80 "4)
##' <4"?' ' <224' C<"=<<2' ' 42@<' 42B' $:55 4)
94"<4:C 42BJ5 !5#
' <2@9' 422<D4" 2' ' <2 4)
K ' 642:4 ?)' !<@ 2B' 42B' 240' " 59' @@: A4" 2' ' 4A<' 0 2?)
i ' $<4@<' ' $ <55C: -' C<"=<<2' ' 42@<' 42B' :5" 4)
##' <4"9' ' $ "")' $ D' C<@ ; <5' $; <' 2 5"<)
'<C :4 ?)' 9<' <4"?' ' $4 5' ' 42@<' 42B' $:55 4E)
4 @9)' ' ; 4"> ; ' ' "9<' 42B' :@9?' ' < -)
i ' 6 5<A9' 24A4 "<' C<@ ; <5' / 2-' ' 4A0<5' 42B' ! @ 0?)
6:2<)' (: 5' 24A4 "<' C<@ ; <5' / 2-' ' 0042B)' 0
6:2<82 0?)' 9<' 2 <B< 4" 2' ' "9<' 2<' @ 25" ": "<B)
6:0?)' 4""0<' ' 4 B4)
: - :5")' ' 42@ 5' ' 4CB @4"<5' "9<' ; A <' 42B' C<@ ; <5' ' 4 @ 5' & ; A< '
' :5" 4)' 2B' ' "9<' 0?' ; 42' ; A <&
!<A"< ; C<)' <4"9' ' ' D)' 2 5" ?' ' 00' "9<' 40<2"5)
@" C<)' %4 ' C<"=<<2' ' 42@<' 42B' $:55 4)
&&' 4""0<5' ' 6<24' 42B' :< 5"4B")
i ' ' <2@9' 422<D4" 2' ' $:55 42' 4 B' "9< ' "< " <5'
G< ; C<)' 4A 0< 2J5' < 0 2' <@ <<)
<@< ; C<)' %4 ' C<"=<<2' :55 4' 42B' : ><?)
' <2@9' 4C5 A" 2' ' 40 ; 4" 4' 42B' 4- 54)
<2 @<' 4BB<B' " ' "9<' "40 42' / 2-B ;)
" 59' <DA<B " 2' " ' :<2 5' ? <5)
!< G 42' <G 0")
<4"?' = "9' 42 "' ! 2-9)
K Y 642)' 42B' G)' " 59' 8 B< 5 2' :2@ 0)J
'<C :4 ?)' 4""0<' ' ?042)
P ' " 59' <DA8 " 25' " ' : ><?' 42B' -?A")
4 @9) 0 9<$ "042B' 2 5" ?' ; <B)' 422 2-' C<@ ; <5' ' < -2' !<@ <"4 ?)'
A 0) 2G<2" 2' ' 4 "<25"< 2' C<"=<<2' :55 48' $:55 4& 42B' ! =<B<2)'
4?) <4"9' ' "9<' ! :0"42' !<0 ; ')
6:2<) <4" "4 2' 4@@<B<5' " ' "9<' 2G<2" 2' ' 4 "<2 !"< 2)' &
4""0<' ' ' <B042B)
6:0?) (B' 2" ' G< 2 <2< 40' 2' 2B 4)' :" 2?' 4" < <)' <'
<4"?' ' 05 " C<"=<<2' ' 42@<' 42B' :55 4)

' ' A' +93 5A'67'+ N '>35=33 'C9 $3' 8'49 ' C69(5 6 '67'5<3'B9 8
E $>A'67'N 9 = ' C'53 6 '67'5<3' 6 73839 5 6 '67'5<3'H< 3'
3253(>"' 9 5 <' 3 3 93')T7%<5 ,`5'7335' 5' 623 < @3
G$56>39' 5"'>3$6(3' " 739'67' 6(3'O7<9' '49
e' 49 ' 8 65'G7' "5 $ 2 5 6 ' $< (<69 5!'(5 9A'93769('
e' C9 $65 aK ("'+93 5A' 5'C6 5 3>3
G$5 F 6 ' C9= $<' 6 '67'4695 @ ' C @<5'67'5<3'4695 @ 3 3'96A '
7 (A' / '83$ 93'= 9'6 'B93 5' 95
E3$3(>39' +<3'K <'E3$933
b' $<53!'A %' !'5 ' ' \ !
C93 $<' 6((39$ ' B<
O>6 5 6 '67' 39A' '5<3' 9 5 <'86(6
6(2 35 6 '67'5<3' (2 6 '96 8'$6 3$5 @'C9 $3'=5<'&5 A
9' 6<' K $6(!'79 5'(6 '56'439
' G$5' C93 $<' 683'67' 9('496$38 93
C3>9 9A' 3D 93'67' !A42 59' 769593 3'>A'C93 $<'59662
C3> K 9$<' H ' 6'67'C 8' +<3'O$5'67'B 9 533' 3$ 93'
5<3' >395 3'67'5<3'B9 8'E $<A
K 9$<' 6 55 5 6 '67'5<3'&(239 '/ 39 5A'67'C9 $3
##' H3 6 5 6 '67'O9 /I 3I' O>8$ 5 6 '67' <9 3'&.
K A' +<3'7 '5 ' 5'K 89 8' O>8$ 5 6 '67'C398 8' 5' A6 3
e' + $ A' 3 538'56'C9 $3
##' 6 32<' 6 2 953'>3$G(3'T @'67' 2
##' +<3'2 ! !'769(38' 5'T6 @ >39@
K A 3' B3 39 ' 993$5 6 ' ' 2 ' ,
A' O$$3 6 '67' 8 <(6 8'&&
e' "5 <55 6 '67'E 26 5' 5' A 3
O @ 5' O99 ' 67' 9' 5> 9'N "3 3A' ' 2 ' 55 3'67'. (396'
' 6 3 655'67'
3253(>39' &<3' 6 3 5 6 '67'4 9
G$56>39' 6 @93 ' 8' 6 3 5 6 '67'P97 95'
E3$3(>39' F 26 3G ' 83' 2 ' 8'6$$ 2 3'K 89 8
+<3'K 9$<'67'O $6 ' 8'5<3'E $<3'67'/9> 6"'K $39 5' 8' (39 6#
$69269 538' '5<3'&5 'T @86(
6 $<('K 9 5' $$338'56'5<3'T @86('67'F 2 3
!"<2!5' ;:2@A40' < ;5)
' 9' 6<' K6693!'$(2 @
' 9A' 55 3'67' 69 /' E3 5<'67'K6693
e' +93 5A'67'5<3'E 98 3 3'UP @ 8' 8'+ 9;3AV
K 9$<' H3 6 5' '+A96 ' G 5>93 ;'67'= 9'>35=33 'C9 $3' 8'O 59
e' C93 $<' 6 '67'4695 @
' 55 3'67'K386/(
##' H3 6 5 6 ' ' =383 ' 8'O>8$ 5 6 '67'B 5 '&.
' O$$3 6 '67' <9 3'%&&&#
O29 ' 55 3 '67'O<3 >39@' 8'P$;(<
K A' O 3' 5 6 '67'5<3'4 2 ' 5 53 '>A'F 26 36
' F 26 36 '3 539 '. 3
e' K 3'G7'O 23(
A' N 3 3 3A'3'23 ' 6 5'c6('4695 @ ' 55 3'67'+ 39
e' 55 3'67'N @9 (
A F 6 ' +<3'N $<(3 '3'238 5 6
' 3253(>39' +93 5A'67'C 3839 ; < ('UH ' 8' =383 V'
G$56>39' 43 $3'67' $<$; >9 'UC9 $3' 8'O 59 V
' F6 3(>39' 55 3'U"G3 7

K K <2<=4() ' 0 < 94 "< ' '"9< 45"' 2B 4' ; A42?' '"=<2"?' ?<4 5)'
55 2-' '"9< 0:< :2"4 25' 42B' A<9 2-' :A' ' 4"9: 5"' :5" 40 4E)'
K KZ 642:4 ?)' $<4"<' / <(' "9< 0 <5042B' <2 ; 4 >E)
i ' $:5' ' <": 25' " ' ; <)
'<C :4 ?)' 2 < <2@<' ' 99" c : !< 2<)' 0
4 @9)' <4"?' ' 94: ; 2")') 4""0<' ' (4 2)
##' 9< 00 <5' <2"<' $4 5' 42B' <5"4C0 59' 4' $ G 5 24(' G<; ; <2")'
A 0)' CB @4" 2' ' 4A 0< 2)' X : 5' X (' <": 25' " ' $4 5)
i ' 4""0<' ' :0 :5<)' 9< ' <2@9' ; 5" ": " 24,' 94 "<)
4?)' ' 5"' $<4@<' ' $4 5)
: - :5")' 0 ' 4 ; 0?' $<4@<)' ' < 0 2)
!<A"<; C<)' 9< 2- <55' ' <224' ; <<"<)
G<; C<)' 0<@" 2' ' 94 0<5' X ' ' !=<B<2' " ' "9<"9 2<' ' =4?)'
" 59' " <4"?' = "9' $< 5 4)' A<2 2-' ' "9<" 4B< = "9' 2B 4'
K KU 642:4 ?)' < <25 G<' A0<' 00 42@<' ' <4"' "4 2&' :5" 4&' 42B' ' 42@<)'
4 @9)' <@04 4" 2' ' "9<' 2- <55' ' <224' 4-4 25"' "9<' !04G<' 4B<'
&&' <": 2' ' 4A 0< 2)' ' 0 -9"' ' (:5' X)
P ' <4" <5' C<"=<<2' <4"' "4 2H ""55 4&' :5" 4&' 42B' $:55 4' 4-4 25"'
24A4 "<)
4 @9 6:2<)' 9< :2B <B' 4?5)
6:2<)' B A" 2' ' "9<' <B< 4(' @"' 4"' "9< 2- <55' ' <224)
P ' B A" 2' ' "9<' ' 24(' @"' C?' "9< 2- <55' ' <224)
&&' 4"" <5' ' (-8?' 42B' c :4" < 45)&
P ' 4""0<' ' %4"< 0)
P ' !<@ 2B' 4CB @4" 2' ' 4A 0< 2)
6:0?)' !<@ 2B' ' <2@9' <5" 4" 2)' <": 2' ' (:5' X ;)
@" C<)' 4A 0< 2' 04:B5' 2' !" <0<24)
G<; C<)' !<@ 2B' $<4@<' ' $4 5)
)K K 4?)' <4"9' ' 4A 0< 2)'

F 42B 4@C? & KF K F 42B " <
2- < * <224& KWF K
4B<2& 94 0<5& 42B 9< & ; 4 <5
6 5<A9 2<5 2 <@<& F : B "9< 2- <55
<224& 'F K F ' <B< @4 8<4'
; 4 <5 5"4G25 X ' B 0A925 '
! =<B<2& F !"<A942 <& 42B 9 : B <55
& U
! 8& <55 & 2< '"9< : 2B< 5
" "< ` ! ' K E&
4?42<& 0A9 25< : C< "B< 4" < & > ; "<
B<& 4 B 24& $4A40 A0<2 A "<2" 4 ? 4"
$4 5& KWU
4-B4B& $4@94 & '
4- 4" 2& $<"< ' 42 "@9& 2@<& UYF
F 4" ' <B042B& W F 42B 1< =4 '
= "9 : ><?& Z UF 42B "9< ; G45 2 '
K K & Z W 5-N)
4 00 <& % 00 4 ; & <2"<242" @ 0 2<0& 4"
$< 4 ; C4>4 ; & YKZ
4 4 "4 & $4@94 ' :5"@92>& '
4 B& ! ' 4G B& <2< 40042B5 4" 2224&
ZZ F 25 <& ZZ F 4" / 558& Y ZF
<aA8 " 2 & " ' 4A< 0 2?& Y
4 <2"9& "9< C : 2B4 ? & 'F F
' <2@9 " A5 <2"< & Y F ! :0" 4"& YZF
0 5" " ' $:55 4& U
40459 & :55 42 2 5"< ' ' $ 0 @<&
Z Y
4005"< 5& ' 42@ 5@ & B 5- 4@<B& ZY '
40" @ $ =< 5 "9<E& ' 94A"< ' 5<@" 2'K&
Y WU5N)F 5<< 494 :55 4& ! =<B<2&
<2 ; 4 >& $:55 4
40" @ !<4& 4"<2" 2 ' "9< " 59 24G?
B <@"<B " & UK 5N)F <5 :0"5 ' @ 2" 0 &
C? 4A 0< 2& ZK
4 ; C< -& 0<@" ' ' 4G4 4 4"& U F
< !R ' " A5 4"& Y '
42B4 5042B5& @4A": < ' "9<& Y F <m
5" 4" 2 ' "9<& YUU
42B4 < 4& @4A": <B K K E& Z '
42> ' ' 42@<& @ <4" 2 ' "9<& Y
42>5& ! ' 6 5<A9& 42B <= ! :"9 %40<5&
Y
42" ? 4?& ' <2@9 0<<" 2& Y '
4 5: : C<& C4""0< 4"& UZUF UU '
4 C4B 5& <05 2 2& 8 F - G< 2 ; <2" 2&
YU
4 CZ 4 C 5& ' 42@ 5& 4 N: 5 B<& WF
KK & KKY
4 @<0 24& A " & Z F : 9<5 ; < 4BG42@<5
" =4 B5& Z F Z UF ' <2@9 @<5 4"& Z F
: 9<5 ; < 4"& Z WF :G 2 !4 2" ? 4"&
ZZ
4 @4?' B< 00?& @9<0& $ 2@<& 42B "9<
2G45 2 ' K K & Z W 5NN)F 4" <4 :"a<2&
UK F UKWF <A04@<5 % ""-<25"< 2& U F
4" (< Aa -& U UF U '
4 B& " <5' &
4 B<0<C<2& $ <55 & 2< ' "9< :2B< 5
' "9< 2 ! ! ' K E&
4 94 ; & B ; 40 ! ' 94 0<5 BB0<" 2&
5" 4 2& 4AA 2"<B ' 5" (B ' "9<
B ; 40"?& Z
4 4" :5> 0& $ 2@<& U
4 0 =& ! ' < 8< 04 & 2' 2B 4& Y K
4 B4& 29 ' 1<>=4 ' 9 0B5& Y '
4 2-" 2& 6 249& 42B "9< 2 2' = "9'
0 8 8
4 ; <0& 2B :5" 40 <DA< ; <2"5 & Y '
4 "<25"< 2& 2G<2" 2' ' K YE& YF
W& W
45<0& <4"?' & ZWF C 59 A @ & <D '
@02B<B ; ' <B< 4" 2& K ZF K UF ; 42 :m
4@": < ' 5 0> 5"4 5 2& Z UF C 59 A @
& K F $<4@< ' KYWUE& W & '
45N : < 4B5& % 004 : ; <a 42@9 5 2' "9<&

455& < -<& <DA0 4" 25 & YZ '
45542 & ' 4 <"
455<8 <48 & Y UF Y Y
4"4G 42 <A : C0 @& <D 5"<2@< & <@ -2 5<B
C? 0042B& Y F F @942 -<5 < <@"<B
C? 24A4 "< 2& ' 5NN)F 4A 0< 2!5
B<40 2 -5 = "9& ZK Y
42B 2& @ 045& ' <2@9' @4A"4 2& 2' : 5 '
" 40 4& Y W
42B 2& ' <2@9' 4B ; 40& W
4 : "a<2& C4""0< ' K K E& UKW
4G4 4& 94 0<5 9< B <& 0<@" ' & Z F
<4 :' ; 4 @9<5 2" & ZF ' <2@9' 4@N : '
; " 25 2& F Y F 42B' "9< ; A< 40
<@<55 ' K &WZF < ' "9< 9 : @9'
2& KF F 25 ' 42@<& U F F
<@< G<5 25C4@C& YF 4 49 -< ; <2"5
2G45 2' & Z F @ : D ' "9< G 4 ' K W&
ZYF A A 5405 ' <""< : @9' " & U YF
" <4"? = "9& F "< " 40 @942 -<5 2&
UWKF UW & WYF 42B' "9< 2- <55 '
<224F W 5NN)F ; B' "9< ' <B< 40 @"&
U F 4 ; C " 2' & 8
4?0<2& @4A " : 04" 2' ' : A 2" 4"& K YF
KU5NN)& 'F U UF 5< a<B' C? 45"42 5&
Z YF <5 :0" ' ' <2@9' B< <4" 4"& Z '5NN)
4? 22<& ' <2@9' @< 4"& K 5NN)F 4m
A 0< 2' 4"& K F K & F @ 25" " :" 2'
55 : <B C? 6 5<A9' ; & Z F : 4" 5 : ; m
; 2<B " & ZK F : A 2"5 4 ; ? 4"& Z F
'< B 242B' <4@9<5& Z F Z F 4 80< 2'
4"& Z ZF " <55 & Z ' 5N)F 5 " <
' <2 B ' -4 5 2' 4"& Z '
<4294 ; 4 5& 0<D42B <& @ ; "<B<& ' <2@9'
-<2< 40& K Y
<4294 ; 4 5& : -<2< B<& K YF 4A 0< 2!5
RB 942@<00 ' ' !"4"<& KK F K WF
@< ? ' "9< "40 42' / 2-B ; & ZYF
UU F WZF =<BB 2-' & UF 4A 0< 2!5
4BG @<" & WUF :0< & W '5N)F 4BG 5<B
C? 4A 0< 2' " ' 422<D 4 @9' ' 2@ 24&
Z F 42B' "9< :55 42' @4 ; A4 -2& Z '
5NN)F <A04@<5 : 4" 4" $ 5<2& UKKF
@<B " ' <G4@ : 4"< $ 5<2& K F <4@9<5 0
' 42> "& UK ZF 4" <8 "a& KUF 42B'
"9< ' <2@9' "9 2<& UUUF 4" "0 ; ' 2- <55
' <224& U
<4294 ; 4 5& "<25< B<& K YF K W
<4294 ; 4 5& 6 5<A9 2< B<@! ' 45<C< ' B<' '
04 $4-< <E& ' 6 5<A9 2<& ; A <55 '
) ' 42@< S
<4 : ; ; "& ; < B<& Z

e< @4" 4* <54"B 2<5424& 4" C<5< B &
' K W
<B B& 6 92' 255<00& 5 5"9' 4C<' & C< '
< ; <5 B <c"<242" ' <042B& Y Y
< 4& 455" 4J5' 4BG42@< "9 2- 4& Z '
<0@ ; "<& ! 2@9<"J5 G <" ? 4"& Z 8
<J< ; & 0 -9" ' $ "2- : <5B ?40 4 ; 0?
; & Z
<0 45"& ! @ <"? ' 2 "<B "9 ; <2' 4"& ' WZF
G 0 : 2"<< 5' & W F A 5A< L8' & Y '
<J- : ; & @<B<B' " ' 08 2 @ <& WF ' <2@9'
" A5' 2& W F A A 540 " ' : 2 "< = "9'
00 42B& WF 4A 0< 2' <5 0G<5' 2 "' " '
@<B<& ZW F ' <2@9' B G<2' : " & U F
@4 ; A4 - 2' 2& W 5NN)F "9< 5"2 2 2- '
90 @>' ' : A<& F 2@ A 4"<B' % 8'
00 42B& U F & Y '
<0- 4B<& 642 554 <5' 4"& Y
<00& ' 2B <=& 42B' <0< ; <2"4 ?'<B : @4" 2&
W
<00<-4 B<& <2 & ; "< B< -<2< 40E& UF
& ZY& ZW
<0 ; 2"<J $ 2@< & 4 <5" ' 6 : 0? KW&K KKE&
F <5 - 25 @<& Z
<24G<2"<& < 2' "9< 4B' " & ZZUF
$4 - <" B< <4"5 "9< ' <2@9' 4"& }
<2<G<2" & B<@04 <B' 'C<0 2 -<'" "9< 2 9&
K W F - 42"<B' " ' 0400<? 4 B& KWZF F
2 '0 2 -< ' 9<0B' C?' $400<? 448' Z'
<2 - 40& < ; ' 2& YKK 5NNJF Y & Y & Y F
4=BC 1a ;' & 0<-40 8 "5' & YKK
<22 -5<2& (<G 2' : - : 5"<' $9 A9 0<& ; "<'
B<& : 55 42' -<2< 40& ZWF & K& UW& KF
@@ : A <5' %4 54=& ZF < " : ; 42B< 2H
@9 < & UF <" <4"5 " ' B2 -5C<"' -& F
4"' ' <B042B& W F B<5 <5 A<4@<& WK F 4"
05 "& WYF 42B' "9< 2G45 2' ' K K &
Z W 5NN)F 2' 9< ; 4& K F & Y F 4"
(< Aa -&)
<2"94 ; & 6< < ; ?& 2+ ' !' 1 !#
KY F 42B' $4 0 4 ; <2"4 ? ' < ; & ' '
<2" 2@>& (B' % 00 4 : ' 4G<2B 8& " 59'
@ ; ' ; 42B< ' 2' ! @ 0?& F 25 5"5' 2'
< ; G40 ' c : <<2' ' 4A0<5& Z F 5 : A< '
5<B<5' : 4?& ZYWF WWF 2' 2B 4& Y K'
< 4 & 4 4' & 9 5" 0 "? & Y F Y '
< C0@<& @@ : A4" 2' & YU 'F YUU
< <5 B& 8 9 2 & B 5 ; 5540 & W '5NN)'
< <5 B& % 00 4 ; ' 4 & 5< 2" -<2< 40E&
5<2" " ' < -42 5< "9< $ " : - : <5< 4 ; ?&
ZZ 'F = "9' % <00<50<?& ZUKF ; 4 @9<5' 2" '
! A42 59' 5" < ; 4B : 4& Z F % <00 2 - m
" 2' 25& Z F 4" 0C : < 4& Z YF Z F
; 4 @9<5' 2' B<4 : D& Z KF 2' : <2 5)
' ? <5& Y
< <a 24& 4A 0< 2J5' @ 55 2 -' ' "9<& K
5NN)
< -& - 42"<B' " ' : 4"& YF 42B' : @9?
& Z F Z WF : 2B< ' 4G4 42' : 0<&
Z W K F 42B' "9< <2" 40 B ; 2 5" 4" 2&
YF @<55 2' & " ' $: 55 4& UW F <- m
; <2" & F 4@N : <B' C?' $ 455 4& Y
< -& 42B' 4>< & ' : 4"
5 -<2 A ; & @@ : A <B' C? 4A 0< 2&
Y

< 0 < & 9 A9 0<& ; "<& K KF K '
< 0 2& 0?@9< 0 B<5A4"@9<B " & F 2<- m
" 4" 25' C<"=<<2 ' 42@< 42B' 255 4'
@<2" <B' 2& ZKF 42" ' <2<C' <<0 2 -' 2&
ZWF U F <4"? ' $4 5 4" <B' 4"&
F " " 5C' 2 5"< ' <@400<B' ; &) F
A A : 04 ' <D@ "< ; <2" 2& Y F ' <2@9'
<2"< & YWF 4A 0< 2' ; 4 @9<5' 2& YZF
YYF 4G : " 4"& Y F 4A 0< 2' 4"& KF
<@ <<& "9<' K E& & K& Z U& Y F
' @9"<4"& 8 F 2 G< 5 "? <5"4C0 59<B' 4"&
8 Y F F ! "< 2' 4"& WF ! '
+ ' 4"& F <" : 2' ' 2 -' 42B'
c : <<2 " & ZF F 2 0 : <2@< ' c : <<2'
(: 54' 2& 'F ! <9 00 B<A4 "5 ; ' A 0
/ & K WE& UYF : > 59' < ; C455? <5"4Cm
0 59<B' 4"& F <2 < ' 4"& UK F 2 -'
0<4G<5& " &F <""<2C 2' 2& KZF - : 4 B<B'
0?' =& UK F : B 2 " 5<2" " & U F
4A 0< 2J5' A042' " ' 4""4@>& U F B< <2@<
& U U
< 92 - 9 <2& ; ; 42B< ' ' "9< B< ' '
! " 6 92& 4" "9< 2 - <55' ' <224& Z
< 2& A0 : 2B< <B& W F ! ' ' 4" K E&
WYF 6 ' 4" K KE& W F 5<4" '
- G< 2 ; <2"& K F 4A 0< 2' @ 2 5@4"<5
5" <5' ; ; < @942B 5< 4"& Y F 42B' "9<
2 - < 5' <224& KF 5 : C <@" 2'
' : -4 ;' " & YK
< 24B ""<& <2< 40& 6<42 4A" 5"< 6 : 0<5&
' 94 0<5 '6 92& 2 -' ! =<B<2'
< 2 < & " <22< 0<D42B < 6<42 4A" 5"<'
4 <& CCB& KZF K & K Z& K '
@5 ; 5" & 2B <=' $<"< & : 2"& 42 59'
5"4"<5 ; 42& Z ' 5N)
< ; 5" 0& 9 5" 42' : 2"9< & : 2"@4"
"9< 2 - <55' ' <224&
< 25 ! & 6 4@9 ; ' ' <B< @>& : 2"& 4"
"9< 2 - <55' <224&
< ?& 94 0<5 ' < B 242B' BJ 5& 2@ B<&
42B"9< 2 5" ? ' (: 5' X & F U '
@ "9<42 ; <' 4?&8 ' <2@9' 0<<" 2& '
< "9< <42& ' <2@9' : 5"& K '
< C < & (: 5 6<D42B <& $ 2@< ' %4 '
- 4 ; ' 42B' <: @9 1"<0& 4 594 0' ' 42@<&
KF K & W& K YF 4A 0< 2J5 @< 2m
5"4C0<& KK F K F 42B' : 2"5 ; 42&
KKKF <@< G<5' < : @9B"<0& ¥ $ 2@< '
%4 - 4 ; & KK F $ 2@< ' <2@94"<0& YF
4A 0< 2J5 25" : @" 25' " & Y 'F ZY F
: ; : <B A <@" ' 4A 0< 2'@ 2@< 2 2 -&
Z UF 9 < ' '"9< ! "4 & Z WF < : 5<5 " '
2' 4A 0< 2& K
< " 4AB& <2 4" <2& : "<& ' <2@9'
-<2< 49 4" < ; <0& Y F 'F 4" <22<'
= "a& WF U F 4" %4 "<2C : -& U KF
U F 4" (2B<24 : & UF B<5A4"@9<B " '
! 440<& YF "4><2' A 5 2< & Z F 4" !"
<0<24& Y YF Y K& Y W
<554 4C 4& : 55 42' 422<D4" 2' & Z U
<55 B <5& 6<42 4A" 5"<& 2@ B<& <@< G<5
"9<' B : @9?' 5" 4& KKKF UKF @ 55<5
"9< B455 4& Z 'F " A5' & Z 'F Z F
42B' 455B24& 5PA%?P' 42B' "9< : 55 42'
@4 ; A4 -2& Z 'F ZWY

<: - "& 64@N4<58 04 B<& ; "<& 4AA 4"<B
; A< 40 ; - 5 2< ' 2 "9 < : @9? '
< -& ZK F - G< 2 ; <2" & ZKK U F
B 242@< 5 -2<B C?& ! W
8 ; <&)) ? 2& ' 45@ 42 5"4"<5 ; 42
42B : 5"& ZF : 2A A:04 "? 8 Y F

<aC FF B9 & 22" 0<D42B< ' 0<a42B '
S=@9& !
C4 4"A2 & B 4 8 ' " <4"? = "9& Y '
9 2504& 42B 2B 42 A 0 " @5& YKYF Y U& Y '
404& <22 88<2 4"& U
40?5" @& 455 -2<B " ' 255 4& W F @<B<B&
Y
C< 4@C& <2 -4 -< ; <2" 4"& Uj
@94"& 4 < 42< 5 8G 5 & K '
B455 4& B : 2 " @ 55<5 "9<& F : A 2"
B< <B " ' ; 55 0<F Z F 9 : 0 ' "9<&
Z
<0& @<B<B " ' < 2& K
- " B< ' <4 ; <2@ & < D 8 :0 <288<42&
9 2 5"< ' 9C9@ % 59 A& K F) KU '
2B< & 4 2& :5" 42 B A0 ; 4" 5"& 4" "9<
2 - <55 ' <224& U '
42& 4 2< B<& K '
54 ; C< -& @9B : >< 94 0<5 2& U '
5@4?& @@ : A <B C? 4 5940 2 <?& Z F
04><!5 4BG42@< 2" & ZZ '
G 00<& 4A"4 2 % -9" 042B5 4"& WF 4G4 ?
- <5 " &
04@45& ' < < 2 Y<42 45 ; & : ' B<&
42B "9< 2 5" ? ' (: 5 & U UF
4BG @< & UYZ
04@>' ' <5"& "9<& UY 5N)& U '
04><& 6 4@9 ; & !A42 59 -<2 ; "8 @R22 '
; 42B5 ! A42 8 4 ; ? 2 40 @ 4& Z F
4BG42@<5 2" ' 5@4?& ZZ F B< <4"<B C?
4 5940 (< <CG <& ZZ F 5<2" " ' 40<2@ 4&
ZZ F B< <4"<B C 0 < !4 4- 554& ZUZF
4 B5 < <5 B& Z F <- ; <2"5 & - G<
=4?& Z YF 4" !<G 00<& Z F 4 5<5 5 <-<' '
!4 - : 2" & ZY
042><2 <B& C4""0< ' K K E& U '
0 -9& % 00 4 ; & G< 2 ' ' / <= ! : "9
%40<5& Y W
0 2B9< ; & ' <2@9 4 ; ?@ 55<5 "9< 42 : C<
2<4 & Z
0 5& <5 B<2@< ' 4B4 ; < B< !"4!0 2<4 &
K K
0 : @9< & <C94 B (<C < 9"& $ 2@< G 2&
$:55 42 ' <0B 4 5940& 5 : <2B< ' &
'F F @ ; ; 42B5 2 ! 0<5 4& UKZF
@@ : A <5 <5B<2& UKUF 4" 55 B '
5@9<2& UKYF UK F 4" 4 : "a<2& UKWF 2
! 0<5 4& U ' 5N)F 2 "9< ; BB0< 0C<&
U F B<@ 5 G< 4@" 2 & U K F U ' 5N)F 4"
@>< ; & U YF 4" (< Aa -& U 'F UZ F
4BG42@< & UZZF UZU YF <" <4" & UZ F
@ 55<5 "9< 4 2<& UU F Z" (4 2& UUKF
B< <4"5 4 ; 2"& UU F 002<55 & UU F
4 ; ? & F 42B "9< <0- 42 @4 ; A4 -2&
UF 4" (-2?& Y 5NN)F B<@ 5 2 &
KF 4" %4"< 0 & ' 5NN)F ; 4 @9<5 2
$4 5& Z
9< ; 4& " A5 ' ! : G ' ; 4 @9"9 : -9)

ZKF :5" 42 42B : 55 42 " A5 2& UY8
:5" 42 " A5 455< ; C0< 2& Z F 4 ; ?
' 00 <5 2& U 'F U W& U K
40G5& 455 24 "4><5 "9< 4B "9 : -9&
Z K
-2<& <2 " 0< 2<& ; "< B<& 42B
! 2B9 4& YK F Y
0 -24& 2 G< 5 "? & < A<2<B& F
< 2<5< A < <@" 5<2" " & WZF 4@58< ; ?
' 4 " @ <4"<B 4"& W '
" 2& A<" " 25 ' A<4@< ; & W
; C4F?& (B ; 2 - " 2 42B& Y F <Dm
A<B " 2 ; & Y Z
: 40B& (2 5 4C <0 2BH 5<& @ ; "<
B<& K
24A4 "<& ' 4A 0< 2 '
24A4 "<& 4 0 2<& Y
24A4 "<& 0 5 1 ' 42B "" <9<55 ' : 5m
@42?& <@< G<5 (: @@4& ZYF Y& W & F
N : <5" 2 ' 2B< ; 2 "? & U '
24A4 "<& : -<2<& KWU
: 4A4 " + ' 6< ; <& / 2 - ' %<5"A940 4& U F
0 K YF ; 4 4 - ¿ # KW F 0 UF 2 ! 0<5 4&
KF 4" <5B<2& YWF > 2 - B ; ' %<5"m
A940 4 ; <B& W F - G< 2 ; <2" &
2 %<5"A940 4& Y& U F @5@<B " '
<" <4" . ' <5B<2& UYF $ A< < : 5<5
" '542@" 2 "9< B G @< & Z KF 4AA 2"<B
2 - ' %<5"A940 4& ZKKF ZK F @ 22 G<5
4" @ 2" 4C42B " 4B<&ZYZF 9 : "4 ? ; 594A
(' ZW F 4" 2" ; 4 " <& UU '
24A4 "<& 6 5<A9& F Y &K &K YF 42B
0<@" ' 9< ; A <& KK F 2 - '
4A0<5 42B ! @ 0?& KKKF <- <2 ? '
' ; < G<5"<B 2) KZYF A0<2 A "<2" 4 ?
' "9< 2@ B4"& K ZF / 2 - ' 4A0<5&
KWZF B<@0 2<5 > 2 - 59 A ' "40?& ZYF
Y& Y & YK& KU& ZF < "5 & " '
-4 2 ! 0?& KF @ =2 ' "40? < <B
" & WZF 08 2 - ' 4A0<5& Z F @94 4@"< '
& Z Z F " 0B " ' 4@" = "4 @4 : " 2& Z U
B< <B " ' <D@942 - < 4A0<5 ' !A4 2&
Z F A @04 ; <B 8 2 - ' !A4 2& Z ZF
<G4@ : 4"<5 4B B& Z 'F ZZKF : 24C0< " '
< 2 @< @" & ZU F ! : 0"J5 0<""< ' " &
ZU F B< <4"5 <2<-45 4" 92 24@ B& ZUZF
B< <4"5 < a4 -4& ZUUF 4" 4B B& ZY F
<" <4" ' "9< 4 : ? & ZY F 4" 40<2@ 4&
ZYZF <" <4" & ZYYF <@400<B " ' ' 42@<&
ZY F 4" 2" ; 4 " <& UU '
24A4 "<& (2 5& K YF 4A 0< 2!5 25"4C0<&
KK F K WF B< 4<5 > 2 - 59 A ' "40?& ZYF
/ 2 - ' 0042B& YF 4" %<5<0& YZF Y F
0042B 455 - 2<B " ' K E& W F Y F
ZK F 0 -9" F YKF @ =2 ' "40? < <B
" & WZF 0<"" < ' 4A 0< 2 " & Z YF <Dm
A ; 05 2 & ZKYF 4A 0< 2 < 5 = : '
' !A4 2 " & Z F 42B 4A 0< 2& YU '
24A4 "<& (2@ <2& C<@ ; <5 2 5"< ' "9<
2"< & WF & Y & K YF B 5@4 B<B C?
4A 0< 2& YF 5 : - -<5"<B 45 $ <5 B<2" '
"9< 94 2 ; C< ' K KUE& '
24A4 "<& 4 < $4 0 2<& = < ' $ 2@<
4 ; 00 ' -9<5<& KK F <@< G<5 : 45"4 / 4&
KKKF Y& Z K

24A4 "<& 4A 0< 2 94 0<5& B<4"9' ' K E& K W
22<"& ' <2@9' -<2< 40& UK'
25"<""<2& 94 0<5 @" 'B<' !2B55 A9 0 m
5 A9< E& Z Y
B<4 : D& < <5 B' ; 4 @9<5' 2& Z K'
-9<5<& 4 ; 00 & : @ B< 445"4 4*' KK F
G< 2 <2< 40 C<? 2B "9< 0A5& WY'
-B& @"' ' :4 42"<< 55 : <B' 4" K WE&
KZ
- & : 2"' $ aa ' B & ' $ 4a ' B' ! - '
55 & ' <2@9' <" <4" " & U K F U '
22 B4& A04 2' ' "9<& F '
: & : 5" 4' -4 25&
2 < & $9 0 AA<& K U
B 2 & C4""0< ' K K E& ZWU 54 -)'
G5>& 4A 0< 215' <" <"8' C?& Z 8'
5"<00& <" <4" & C< < : - <& UKUF 4"
<22<= "a& U
52 4& 5 : - -<5"<B' @@ : A4" 2' & C?' ' 42C<&

"42?' 4?& @ 2G @"5' 4"& Y Y
<2@9<5 B< <: 5<& B84 " ; <2<" ZKY'
: 00 2& B : @9?' & UUF 5<A4 4" 2' &
1 .' ' 42@<& Z
: 04?' B< 04' <: "C<& 2" 2< U)) 6)&
; "< B<& KUK
: 0 -2<& 24A4 "<15' " A5' "& F 94 m
C : ' ' < : -<4"& K F G 5 "' ; 4A 0< 2'
" & K 'F KZ UF " 59' 4""4@>' 2' 0 " 004'
4"& KU 8F ' <2B ' 4 ; ?' : G<B' ; &)
ZF 0 " 004' 4"& YF 4 ; ? 4"& ZZF U F
"40 42' " A5' 2' ; 42 <: G <5 4'H W '
: C 2& " < B<& <B : @<B' K K E& Z 'F' YUZ'
: C 2& :5< & Y F ' <2@9' @0< -?= >'
' <" : 2' '"9<& F KU& KF <5" 4m
" 2' '"9<& UUU 5NN)'
2 -' !" $ < <& UW
2 ; 2"& : 5 : - : ! < @" & ; "< B<
94 52< B<& 4 5C8' ' 42@<& F KZ&KY'
: - : 2& ' <2@9' @ ; ; 42B< & B< <4" &

: <22<& ' 4 : G<0<" B<& ' <2@9' 2 5"< '
4" 4 ; C : -& Y F 4BG @< & UYZ
?<2& ' < ; 422' B<&
4-42a4& :5< & KUF Z F C45< '
04 00 2 8 2 15' A< 4" 25& ZY '
4 - -< 4"92 5"& 94 0<5& A4 ; A90<" & '
4 & : !5 42' @4A" ; < & Z U
42B<2C2 ; & 0<@" ' & 5<< ' <B< @>'
% 00 4 ; ' & / 2 -' ' $: 55 4'
42B<2C : -& 0<G?' 2& YF KZ' 4 >' &
U
42B<2C2 ; & :5< & UW '
4 : 24 : & 8" 5 ! ' 4"& UUF @@ : A <B' C?'
' <2@9' " A5& WF ' <2@9' <G4@ : 4" 2'
& W
4?<& 4A 0< 2' 4"& UZY'
4a 0& ' <2@9' 59 A5' & Z F = "9B 4=40
' $ " : - : <5<' 0<"<"" & F $ 2@< <-<2"
' $ "' : -40 54 05' <224& U Z F 2@ A 4m
"9< 2- <55' <224& U Z F 2@ A 4m
" 2' & = "9' $ "' : - B& W
= 4a 0& 2' 6 92' & 5<< 6 92& 2& '
4a 0& $ 2@< <-8 "' ' $ "' : -40

<B4& "4><2' C?' 4A 0< 2' 642' K K E& Y '
< 5 -42& : 5" 4' @<B<5 " ' B<24& WZ
< "<20<<& : 5" 4Z " A5' A455& U '
< ; <2& $: 55 42' " A5' @@ : A?& Z F = "9m
B 4=' ; & U F < ; C4 >4" 2' ' " 59'
@< !"& F " 425 < <B' " ' $: 55 4&
ZF - G< 2 ; <2" & Z W F 42B4 : 2< 2&
KU8' 6<=5 & U
<22%& ; ; 42B42" ' 0 ; < B4&
Z
<504 : & 5 <-< & KF " 2 G< 5 "? <5"4Cm
0 59<B' 4"& YF F ' <B< @>' % 00 4 ; '
4"& UK F UK j F ' <2@9' " A5' 4"& U F
<5' " A5' 2<4 & U '
<5"& ' <2@9' 0<<" 4"& K F K & KZF
C0 @>4B< & KKF K & KU YF ' <2@9'
A5' 4"& KWF 42"<42 ; < C0 @>4B<B' 4"&
F C0 @>4B<B' C? 2=400 5& F
42"<42 ; < 54 05 ; & 'F Y" 59'
C0 >4B<B 5A< 5<B& F C0 @>4B< <2<%<B&
Z F ' <2@9' " A5' 4"& U '
<5" 8 ' :55 4E& ! @9=4 a<2C< -' <" <4"5
" & ZWW
<" 25& <G ' '"9<& U Z
<22<& C4""0< ' K KZE& UZU
<?& : 5" 42' @ ; ; 42B< & '
-2 0<& 4 N : 5 B<& <2 <5< A0<2 A m
"<2" 4 ? 4" <224& UWW
& 94A "a 4"& U '
D<: & : 5" 4' <@< G<5 "9< C 59 A @ &
WZ
; C< -& ' 9 "<C4 - ' 4"& UK '
: -94 ; & <2 ? $<"< & 4 2' : -94 ; '
42B' 4 : D& 42B' "9< %9 -' A4 "?& YF
42B' <D< ; <2"4 ? <B : @4" 2& W '
=2 --& ! ' C< " -<2< 40E& 2' <?0 2&
Y Z
22& 4A 0< 2' 4"& U F 4BG42@< '
00 <5' 2& UW
: -<5& <2 0A9 25<& : "< B<& A m
A 5<B' 45' 42B' 942@<00 ' '"9< (<- 2'
2 : & UYK
: D& : 5"4@9< ' <2@9' 4B ; 40E& ! '
; 2<& 2 00 42 : < 4 < 22<& 4 50 : B' '
' 42@<& K F KZ& K& & W& W & KK F 5 -25'
4 ; 5" @< = "9' ! = 8<2& WUF : -<2 @<B<B'
" & F @ ; : 42B' & Z'
: 22< & $9 0 A' 6 5<A9& K'
: 25= @>& 4 0 % 09<0 ; ' '< B 242B& :><'
& UU F Z F $: 55 42' 2 5"< & F
@ " : ; 42B< 2 9 < & Y F YZF <" <4"
& YU F 4" : < 5"4B"& Y F YY F B<4"9'
& Y
: 25= @>& @ ; A 5<B' 2' > 2 - B ; ' ' %<5"m
A940 4& F : @9?' & ZKKF' 6<=5' 2&
ZK F 4 ; ? &
: 25= @>& :5< & U '
225= @>' <05& ' <B @9' % 09<0 ; & :><
& UF 2' %<5"A940 4& YF <2"< 5
: 25= @>' 6 : 0?' & K WE& UYF B<4"9'
& W
; 504 "& (: 5' : 2' B< ' <2@9' -<2< 40E&

: 55<05& %<00 2 -" 2' 2& F '
: C24 ("" a& ' < B 242B& : 2"& UW

<@ <<& <2 5& :><& ' <2@9' 2 5"<' ' 4 2<& K F) 4A 0< 2!5' B <@" 25 " & K F 4BG @<' & " ' 4A 0< 2& F Y& KK& K
< < ; 2' B<5 94A<K B <j& 64@N2<5 ' <2@9' 2"<2B42" -82B 40E& KK '
< <42& 6<42 ' 42A 5 ; 8& >22"<& W
<04C B<& <2 ' 428 5& ; "<' <2@9' -<2< 40E& C<5 <-<5 X 0 45<& KY <55< "& 2B:5" 40 <DA< ; <2"5 & YY <09 & @4A": <' +# C? 94 ; ; 4B425& YKWF 42B' "9<' 4 1"945& Y UF 5 <-<' & Y YF !949' 04 ; '4"& Y
<0 0 ; <& 6<42' 0 2 5' ! = 55'A:C0 @ 5"E& Z Y <0 $4 N:<& !A42 59' -<2< 40& B< <B' " ' 4BG42@<' 2" ' (< 2& ZU ' ' < ; 242"5 ' "9< @<' & ZU
3 ! # 4B4 ; < B<' !"4!0!5' K E& K K < ; < 4 4& <5" <B' " ' 0042B& YUF <B:@<B' C?' 2-042B' KYW E& Y F K 8& Z F <m "<2" 2' & C? 2 8 2 B& UZ' F YUU < ; < G 0<& ; 2 N:<&64@ C 2!8G<5"<B&KY <2 ; 4 >& <2B59 A' ' ! :55 4' = "9& F <DA "5 & Z F 400 <B' %"9' ! =<B<2& ZZF 2-0 59' B 5A:"<5 = "9& ZUF :55 42' 2<m - " 4" 25' = "9& Z F 2-042B' B< ; 42B5 <DA04424" 2' ; & Z F <04" 25' = "9' <4" "4 2& U F 24G40 0 55<5 & Z F 4 "<' "9< $<4@<' 05 "& WZ F Z F <04" 25' ' <4" "4 2' = "9& WY F : 5 400 42 <' = "9' ' 42@<& F <04" 25' & " ' : A<42' $ =<' 5& ZZF 42B' "9<' 2- <55' <224& U 'F ZYF 25' < ; 42 @ 2 <B< 4" 2& UWF <@< G<5' (4:<2C"" -& K <2 ; 4 >& $ 2@<6" ?40 & 4A 0< 2!5'0<"" < ' " & W 'F WYF 2-0 59' 400 42@<' < :5<B' C?& WWF <22<= "a& C4""0<' K K E& U W ' <2 2& ; 2 N:<' G42"& 4 2& K Z' < -4 2& <4"? ' K 8& Y < ?& 59 A' & ' < G<?& ' <B< @>' : - :5" 2& Z"9' 4 0 ' 5" 0 <54 D& (2 5 94 0<5 2" 2<& ' 0 B5 4B<& <B:@<B' K E& Z ' <5A<94' $<" 5& <B<0 5<2" " ' 5<@: <' "9<& Z Y <554:& ' >' 4"& UKU F 5<-<' & U ' <55 0<5& 6<42 6 5<A9 $4:0 2 - :5" 2& 4m N:5& 2:242B42" '"9<' 4" 240 :4 B& U Y)' UU 4 ; 2B' @>& "9<& K F Z' <C "5@9 ^4C4 >425>& 425) '))& : "<' B<' <C "5@9' 42B' B< 4 B<2 :5' 5 42' -<2< 40E& UKK' 8& C4""0<' & Y 2& 4A 0< 2!5' <5< G< 4 ; ? 4"' ' 00<2C2 -& A4 "5 & 4BB<B' "' ' "9<' 42B' : @9? ' < -& ZK ' D 2& B ; 40& ZU BC& "9<' 4 "945' 42B' "9<& Y Z F ' <2@9' M' B ; 2 2' 2' "9<& Y U F Y Y ; "a& " <55' & UY ! 2 C< -& %)) & 4 2' G 2& U F 4" B2<C": -& UKU F 2<-0 -<2@<' &

@))) / ,

C >9"2 & : !5 4:' 00 <: ") @ 0 2<0 ' :554 5& B< <2B5' ! ; 0<25>& ZW F 4" 40 4 504G<"a& ZWW' 0B< & (42B4 ; ; 422& ; < ; C< ' '"9< ! = 55' <@" 2& WY' 0- 2>9' $ 2@<& 5<2" " ' < 0 2& UUF 2"< G <=' = "9' "8 0< 2& UW F ' 2 4"& 6<42& K ' ; C G5> & 6 92' <2 2& Z ' ; 2 @4& ' <2@9' 4""4@>' 2& K 24 :<5@C 9-<2& / 4? 4"& UYF U ' 24 :=C "9& 42B' ; ? @ 55<5 42 :C< 2<4 & UZF ' <2@9' " A5 B< <B' " ' @ 2m @<2" 4"<' 4"& ZYF 4A 0< 2' <2"< 5 A 0 KY&K WE& Z 2 :4B <2& 4C <0& # @ ; "<' -<2< 40E& K 22< 5C< -& A4 " & @<B<B' " ' %<5"A940 4& U >9 & :55 42' !@< & - :< 004 =4 4 < :2B< & ZW' 5<22<' 0< $4 -<& 6<42 4 < ' 42 F & ; "<& ; B5' ; ; 2"& Z ' " ' ; 2B& 4@N: <B' C? ' $:55 4& UY 2 & %<0<50<?!5' A4554-<' ' "9<& ZUK G< & !" 4 "5' & B< <2@<' "9<& K ' 4><& ' 42@ 5& " 59' 4-<2" 4" :2 @9& F & K <5B<2& @@ :A <B' C? 4G4 42' " A5& YWF F @@ :A <B' C? "9<' 4>' ' :25= @>' <05 6:2< KK& K WE& UYF 4A 0< 2' 4"& Z YF ' <2@9' " A5' 2& UKZF <G4@:4"<B& UKU' 40 <5 4"& UK F !@9=4 a<2C< - ; 42B <5 2& F F 4A 0< 2' 4"& U Z' U U& U F C4""0<' & U ' 5N)F UZK A ; <& <2G 00< 4"& Y """2 2-C 0 ; & <4"? & Y :<"& 68<42 4A" 5'<& ; "<' B 0 2& 0 2 :5<5& "9<& 4 " C< '"9<' (<C42 2' B 5" @"& U :C0 2& B 54 <@" 2' 2& WUF 2 G< 5 "? & W F Y F $4 0 4 ; <2"4 ? < ; ' 2& WYF Y UF ' "a= 4 :' 2& W ' 5N)F : 4 05) !" AA<B& Y KF 42B' "9<' 2 2& Y Z' ; ; <' 4 <5"<B' 2& Y YF B 5@ 2"<2" Z' Y :C 5& $ < <@" ' $ 0 @<& F KK& K & KF B 5@ G< 5' 4' A0 " 6:2<& K E& K YF KZK' :C: 55 2& ' <2@9' A9?5 @ 42& KZ ' : 945"<0< & 6)) & 4 N: 5& 5<2" " ' <@ G<' ? 0& U ' :<05& 6<42 ' 4 :N 5& K ' """@>= "C& ! ' 6 92' 9 ; 45& 4 2<" "<B ; 40E& Z' @ ; ; 42B5' <DA<B " 2' " 25"42" 2 A0<& UF @<5' A4554-<' ' "9<' 4 B42<00<5& :@ 5& -< & KF U& ' :@ <"& "9<' ? ; -< & @9< ; 5"&) K ' 55<0B & 0B' - G< 2 ; <2" & 42B' "9< ' <2@9& ZK F 4 @9 G<5' & ZK K' 294?<"& 2C< "& ' <2@9' 4 ; C4554B ' " ' "9< $ "<& :9<5 ; <& $9 0 AA< : 004 : ; <& :"<& ' <2@9' -<2< 40& 2' 4"40 2' 4& WF Z & Z U& Z WF <0 <G<B' C? :G 2' ! 4 2" ? & ZZ

U ' .

$; :42@2 ' 0< $<00<?& < < ! " <22< <28)
4 <& ;"<' $ 8 9' 0<4 4B ; 40&
Z
$; 2@<4" & 6< 4A" 5"<& <28 58 W '
($: : <a& 94 0<5 ' 4 5& ! '
42 42& B4 ; & 4 " : " 4"A : 40E& Z '
$" 2B44& 44< & <282B& 2 4A< 0 2'?&
YU
$" 2B44& <2 ?& ' <0G <& $ B
$ 2B 240B& " =45 - 02 42<& 4 0 &
& 42B "94 4B @40 ; G< ; <2"& ' W
$:2> >& <2 9 " " ; 4 4"& W
$22 ? & 4 "9ZK< ; ?H 94 0< < < 6 589&
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$2A 2" B J "42-& $ < <& : "<& $ <2@C
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Z F ' & Z U F 4""40>5 B G4&
Z YF 4 0: < 42B ; A 5 2 ; <2" & Z F
Z W& ZZKF 2 5"< ' %4 & UUYF U U&
U F 42@ <<B<B C?' ! 20"& UYK
$ & @9<0& $ ' B< ' :0 & F U &K F
4A 0< 2!5 42B 4 5940 ' "9< $404@<&
KKKF <@< G<5 "9< $2 9? ' : 0 &)F
4" < 0 2& UKF UUF 2"< G <=' = "9
0 ""@ 9<5 2 & Y F KF 4A 0< 2!5 2m
5" :@" 25 " &
$:G<? < & 2 " @ 045 4 <& KU

45" 2B 4' ; A42?& "9< 2-0 59& 94A)
XX ; ' 2 5< ; F "9< :"@9& YZW F YUZ
45" 2B <5& ' <2@9& W " 8' 0<<" 2&
KWF 25: 42@< ' ; < @942" ; <2 & Z '
C< 59< -& <5" & Y
C0"&6<42) 4A" 5"<& ;"<& ' <2@9' -<2< 40&
U K
C & ' <2@9' 4 ; ? ' !A4 2 @ 2@<2" 4"<B
2' "98' ZZKF !A42 59' 4 ; <5 2' "9<&
ZZ
@> ; " 90& C4'"0< ' A 0 &K WE& ZW
9 ' +'9 ! !' K Y& "9<& ' F K
9 ! ' Q B# 2 0: <2@< ' "9<& Y
-?A"& 4A 0< 2' 5'4 "5 0 & UKF < 2 @<m
; <2"5 5<2" " & C?"9< ' <2@9& U F ' <2@9'
B<5 -25 : A 2& Y F <5" <B' ' : ><?& YZF Y F ' <2@9'
42B' 2-0 59' = "9B 4=' ; & YUF !<C45 '
" 42 !5 <A " 2& K F ' <2@9' < 2" : A 2&
KJe8 KYF " 59' B< <4" 2& UF B<5 -25
' ' 42@< 42B' :55 4 2& ' E F K F
4C42B 2<B& KUF 4BG42@< ' : > 59'
4 : "9 "? 2& YF ' <2@9' 0 55 & ZKW
9 <2C < "5"< 2& " <55 & UW
@95 <0B& $:55 42' 4@N : 5 " 25' 2& Y '
0C4& @<B<B " ' ' 42@<& YUF C42 59 ; <2" '
4A 0< 2' " & UU WF 4A 0< 2' 0<4G<5&
UY F 4A 0< 2' 2& UW F - 42"<B" ' :5m
@42?& UZF K 8
0C<& ; :'9' '"9<& " ' C< @0 5<B' " ' 2-0 59'
" 4B<& YZF -9"C42> ' "9<' 2400? 4C42m
B 2<B C?' 4A 0< 2& U KF 00 <5 @ 55 "9<&
U
0' B 2& %<00 2-" 2' 4"& Z
0B 2& 6 92' ! @ ""& 5" 4 0' & ' F 42B

"9< ?' A4 "?& F 42B' "9< 9 ! '
Q # F 42B' @ ; 240 04=& W '
0 à4C<"9& ; A <55 ' 54 4& 4" <224&
U K
0 a4C<"9& $9 0 A 2< 4 < B0C2<' 4m
B4 ; <E& C: 40 & 4" ! " $<2 5& UY '
00<2C 28& B ; : 2B' $4=& 0 B' 9 <'
6:5" @<& 2" : B<B' 2' 4C 2<"& UF 42B'
: 2 '04=& W
00 "& 0C< "& 42B' "9< %9 -' A4 "?& Y F
U
00 5& < -<& 42B' "9< F ! =' Q B#
Y
=4 -<2& @4 <2< 40 4AA 2"<B' 4"& C?
"9< / 2-' '% "< ; C< -& 8 '
0AC 25" 2<& < -<' / < "9& 5@ : 2" / < "9&
B ; 40& <DA<B " 2' & " ' 4A<' 0 2?&
YZW
0A9 25" 2<& : : "5"24 "& ; 55 2' & " '
-B\02 5"12&
05 0<"9& $: >< ' :25= @> <05 < ; C4 >5
4"& UY
05 2 <& 4 ; C < ' 4AA<4 5' ! & F " 59'
<DA<B " 2' 4"& WU
05 2"a& <2< 40& U F 0 '
0"<2& B4 ; <B' C? : 4"& Y '
0G45& = 5 2<B' C? 6:2 "& ZZ '
; <" @ A4G B& 2554 2" < 24 B& K '
; < ?& 65 N : <5 2B B& ; < ; C< ' "9<
' <2@9' @R 0)<5 45" 40 ; ; 55 2' K WE&
KW F KW
; 0 4& : 4" 2' "9<& K
; ; < ?& 6<42 $: < 04 : B<& KUK'
; ; <"& C< "& 42B' "9< 2 "<B' 59 ; <2&
Y ' 5N)
; ; <"& 9 ; 45' BB 5& 42B' "9< 2 "<B'
59 ; <2& Y ' 5N)
2-<2& <28< ; < : " 4"& U '
2-C <2& $: 5 2" 2< <2 ' B<' : C 2&
$: ' B<& KF ; : B< ' & KWK F <!< " '
<D<@ : " 2' & 2' :55 4& KF ZU& KF
<D<@ : " 2' & B< <2B<B& Y K
2-042B& 4 0: < ' A<4@<' 2<- " 4" 25' &
4" (00<& WF ZYF G<2 -<42@<' 8' 2' "9<
$42<5& ZWF A042' ' 2G45 2' & KF
A< 4" 25' & 2' "9<' 40" @&)F ; 4 " ; <
5:A < ; 4@? & @9400<2-<B' C? :55 4&
WF <@ 2@0 4" 2' & = "9' :55 4& Y F
' 8@9' 2<- " 4" 25' = "9& YZF A<4@<' <m
@ 2-5 2& YUF Y F 5" 4 2<B' <04" 25'
& = "9' !A4 2& KY 5N)F :55 42' 0<<"
42B& YF 4A 0< 2!5 A <@"<B' 2G45 2'
& F UKF 2B -24" 2' 4" "9< <5:0"
' "9< %40 9< <2' <DA<B " 2' 2& UWF
; 4><5 A<4@<' = "9' :55 4' 6:0?& K K E&
YWF " 4B<' ' :55 4' = "9& Z YF <04" 25'
& = " " 4A 0< 2& U F 42B' "9< 2m
- <55' <224& Z F 4A 0< 2!5 B<5 -25
2' <-4 B " & Y Z) 6 ' 8 "' "4 2'
225& @ 2A4" 2' ' "9< 0 2<' ' "9<& C?
<42&
2" <' 29 ' <$ 2 & G 2@<' & ' G
: "& ' : 55 42' 4@N : 5 " 25' 2& Y F $:5m
5 42' @4À " :04" 2' 4"& YYF 2"< G <=' C<m
"=<<2' 4A 0< 2' 42B' 0<D42B<' 4"& 40 F

KY WF @ 2G<2" 2 5 -2<B 4" K W E F
2- <55 K YF WZ 5NN) K = W
ZK Z F 4A 0< 2 4" <" %& K E
Y F ' 42 55 42 400 42 < '"9< 2
- <55 F B 5" @" Z F 4AB< 2
- <5 " ZZ F ' <2@9 " A5 4"& UKWF
4A 0< 2 4"& WKY
0 2 6<42 4A" 5"< 2<"& ; "< B<
4 5940 ' ' 42@< 2 "9< $<2 25 :04
ZU F A0 " UY F 42B "9< <0- =' 4 ; m
A4 -2 UF 4" (-2?& F 4" %4"< 0
'5NN)
5> 2<& 9 ; 45& 5" (B& (B 942m
@<00 42B "9< (C<0 00 Y F 0<" <'
; <2" Y
5@9<& -< 0 - 5" ^ : @9% B 4 25 ; 4 59<5
2<4 '"9<04>< :5"4B"& Z
5@ N: a< 6 :42 ! A42 59 5"4"8 ; 42& "B<B
42B 4@N: ""<B& Z W
5A 2 54 @" B< <4"5 04>< 4"& ZZ
55<2 UWF @04 ; <B C? : 4"& Y
55<N: C 2-0 59 <B :@" 2 & YU 'F YUU
550 2-& <DA0 "5 ' <2@9 2 1 2" ? 4"&
ZUF 4A 0< 2 4"& U F :5" 425 4 0 "
"4><& UKF "4><2 C? "9< ' <2B> 4? &
K WE U)
550 2-& $ 2@< & "<< 455B24
5"< :5< &
5' < ; 4B: 4 4 <= ! A42 59 C4""40 25 2
Z UF @" ' 8 ZUKF ! :0" <2"< 5 Z F
B<5" 25 ! A42 59 4 ; ? &)F < <5 B
; 4 @9<5 2" Z F %<00 2-" 2 ; 4"@9<5
2 ZYK <B ;'"9< ' 4@9 ZYU
"4A0<5 ; C : ' ' < : -< 4"& K F ' 8 @C
59 A5 4"& KZF KU
" : 4 ! 2 -' & "<< $4 ; 4 (: 5 (:><
F c : <<2 & "<< $4 ; 4 4 < (: 5<
2 42"4 (: @9<55
" : 4 > 2-B ;' & WF 4C5 C<B 2' "9<
' <2 8' ; A < K F < 0 2 <@ <<@ ; '
; " ; @4"<B " UF 422<D<B C? 4A m
0< 2 'F W '5NN)F < <B C? 4A 0< 2
" ' ' < B 242B& Z '
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: -<2<& $ 2@<& "<< <4 : 94 24 5 : -<2<B<
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G< < ; 4 00 "& 2" 2< ' 42< 5 K Y
D@<0 ; 425 < ; ? 6 5<A9 5 B <& ; "<
4 5940 ' ' 42@<4 4 ' UYK 2<-0 m
-<2@< &
?04 : & C4""0< ' K YE KWUF & Y W F
!@94 ; 9 5" 4"&

'4-42 4-<2" ' ' :@9B& KZ F YK
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+ + # UY
'4 ; >94C>B& <2< 40 (4>< 4"& Y '
'4"<CA2 ! > & ! 2B9 4 4"& YKW
'4 : @ -2?& A4 " @ A4"<5 2 ! = 55 2<:" 40 "?&
'42 <0& 04 : B<& Z
'<0<2C ; -& $C 0 AA< ; ; 42 : <0 B<& 25" m
" :'< 4" =?0 & Z' Y
'< B 242B & / 2-' ' 4A0<5 42B ! @ 0?&
'E Y & & KF <5" 4" 2 ' 4A0<5
" ' F A 540 & " ' "9< ! @ 0 42
$4 : 2<2"& F @4 8" 204" <5" ' 8 42B&
Z F @ ; A<00<B " ' ; 4>< =4? 'B <8 4
24A4 "<& Z F "9 2< ' ! >20? -24 '
42"<<B " & Z F 45 42 4 42@< = "9& H
Z F <@ -2 5<B C? "9< $ =< 5& K
'< B ; B 94 0<56 5<A9 BJ 8 & ; " 42
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4 ; ? ' < ; 42?& U F 6Q# UZF 2
9< ; 4& UYF =4"@9<B C? < ; 4B ""<&
U 'F YUF @ 2 : 242B5 42 :5" 42 4 ; ?&
Z F B< <B " ' @@ : A? %4 54=& ZYF
2 =<5"< 2 40 @ 4& UZ
'< B 242B& :>< ' $4 ; 4& B<4"9 ' @"j
K E W
'< B 242B & / 2-' ' ! A4 2& KF 4 <5"
& Z WF 42B "9< <G 0 :" 2 ' 42 2<a&
Z KF 4A 0< 2 < :5<5 " ' <@ -2 5< "9<
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4A 0< 2&
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F 42B "9< ' 240 @" ' "9< 2- <55
' <224&
'< 42B& 2" 2< ' 42N 5 04 2B<& ' <2B '
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UY
'< 0& C0 @>4B< & K F Kg F 00 <B *@<
4"& KWF 00<2<2G< <" <5 " & F @4Am
" : < ' ; @C 59 @5 & Z)
'< 5<2& : 2" D<0 B<& ; 2 B ; F &
'<5 9& 6 5< B & 4 B 240& K YF 4A 0< 2 5
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5 45" @40 ; ; 55 2& KW F '
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U
' BG<B& 6 5<A9& K Y
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=4 4 < 4-4 25" ' <2@9& ZWY
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<" <5 & Z UF 5 <-< & Z W
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WZ F Y Y
' 2 5"< <& C4""0< # U
' 2><25"< 2& 4A 0< 2 4"& W
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'0 2B< 5& 4""9<=& 24G4 @4A"4 2 42B <Dm
A0 < & @4A" : < & C? ' <2B & Y WF
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] 8 Y / 4H 0< 2 @ 2" 0 ' A 0@? ' "9<
4"" & ! W F 0<2B ' ' 8 @" 5@ :' " &
WWF 9 5" @ @"250 5 ; ' G "9 ! <24& Z '
02 59 8& C<5 <-<B K WE K W F U F " m
@4" 25 & B<5" ?<B C? "9< " 59& UW
8 & < 2G<2": .' & '
; 25> <& ' <2@9 4 ; ? 4"& ZW '
2"4 2<& ' < < ' 42< 5 (Z 24 B& K Z
2"4 2<CO< 4 4A 0< 25 <"2 ; ' # K WF
$ 25 ; A 5 2<B 4"& F 2< BA"
& 'F F $ <4"? & Y F 5<@ <"
2G<2" 2< 4" K YE 'F & WF
<< <<5 >5 @" K ' 42B U&K KE& YWF
YZF 5<@ <" " <4"? = "9 !A4 2 5 -2<B 4"&
@" Y& K YE& WWF 4A 0< 2 5 A 0@?
2 "9< <48 & Z 'F Z F 4A 0< 2 4"&
UZF U & YZF <4"? ' K KZE& UU F
F 4A 0< 2 0<4G<5& UUW
2"42<5& 0 2 5 B< 4 N: 5& KUF 42B
45"<' ' "9< ; A 0 40 2 G< 5 "?& K F
K & K & K WF 42B "9< <5" 4" 2& U U
" 44"<F @4A": <B C? <2< 40 ' 45< '
@ ! ' K& K WE& U
" "6 a& <B<B " ' "9< ! = 55 2 <B< 4m
" 2& Z
" % 00 4 ; & @ 00<-< 4"& Y '
5"< & 6 92& 4 2 <0& 42B "9< 2 2
= "9 <042B& Y Z
2@9 & 6 5<A9& : ' B " 42"<& K F W KK&
KZ K & K & K Y& KK K Y Z F
@94 4@"< ' & KZK F K K& & cF 2m
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UF @ 25A 4@? & UY 'F UYZF 2 5"<'
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Z F A 0 8' & ZU
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4C5C : -& :5< & Z & U & W& KU'5 N)& ZK& /4A 0< 2 42B "9<& U U& UWK& 4BB B8' <2< 40& K& 4-B5C< -& 4 ' 4"& U ' 4-:<& 2G<2" 2 ' "9<& W ' 4 B4 ' 0 & Y Z 4 B4 1C1B& / a4 ; ' & <04" 25' & = "9 A :& YK & YKZ& %"9 2=400 5& YKU& A =<' & YKY& =4 ' = "9 "9< 4 B"945& Y & A =<' 8' Y K 5NN)& Y K 40& 8< 40 0G 00< 4"& ' 40B ; 42B& ! ' <B< @>& (<:"<242"8 <2< 40& G< 2 ' ' 4284& YZK& YZY 40><"& ! ' 0 2& <2< 40& 4" %4" 0 & W 400<& 2 G< 5 "? '%<5"A940 42' > 2-B ; & Y& ZKK& 0: 9< ' 4"& U ' 4 ; C : -& 24A48' 4AA 4@9<5 '4 :0 "9 : -9& ZK& 42 59' @<5' 2& Z 5NN)& 5< a: < ' "59' <2G ?' 4"& ZW& @<B<B' " ' $:55 4& Z& " < ' @4A" : <5& & < ; 4B ""< 42B& W '& Z& Z& <A "'5 ' 4GA2" ; & YZ& "8 < ' & YY& Y & - G< 2 ; <2" & Z W& 4C42B 2<B' C? : -<2<& UKZ& 4C42B 2<B' C? %400 ; B<2& U & 5 04"<B& U & C<5 <-<B' C? ' < ; 4H B ""8' UZZ 4 ; <02& 5 <-< & ' 4 ; 0" 2& ; ; 4& (4B?& W 4242& B 5" @" & Z & @ : 2""? & ZK& 42 G< & $:55 42' " A5 @@ : A?& Z & = "9B 4= ; & U & ' <2@9' @@ : A4" 2' & ZZ& ZW& $:55 42' B<5 < & U & UK& U & & Z& ' <2@9' 4 ; ? 2& U & 00 <5' 2& & 422<D<B' C? $:55 4& U& & Y & < <B' " ' 2-042B& YK& m " < ' 2G4B<5& & C 09 A04@< ' ! @C4 ; ' 9 5"& & 5< a<B' C? 24A4 "<& Z& A4 " ' "9< ' <2@9' ; A <& Z W& " 59' <DA<B " 2 " & Z W& 42B "9< 2m - <55 ' <224& U Y& UW & UWY& W 5NN)& 42B "9< '<B< 40 @"& U & UZ& UY 5N) 425< =25& @ < @ 2' ' "9<& Z 4 B<2C< -& 94 0<5 : - :5" :5& $ 2@< ' ' < -2' 2 5"< & ZW U & A 0 @? & UU& ' 5NN)& & Y 5NN)& W & & W& K& 5 :00<<B5 !"< 2 4" < 0 2& U& A 0 @? & UK & UK & 5 -25 "<48' 94 : ; 2"& UYY& 4" "9< 2- <55 ' <224& U ' 5NN)& Z ' 5NN)& A A 5405 & 4 B 2-<& <2 ?& 5@ : 2"& <2< 40& 4" 0C2< 4& Z Y

4 B= < & $9 0 A' ' ><& "9 B' 4 0 & . + ' <042B& Y ' 4 5& = -<& 5" " 2& <2< 40& @4 ; m A4 -2' & 4-4 25" A : & Y ' 4 5& ! '64 ; <5& ' B50 ; <5C : ?& 4 0 ' 4 %C?& :B0<? ?B< & 5" 4 0 & 5<2" " ' < 0 2& 8 & 0<4G<5 < 0 2& Z : "=<0" (: 5' / ' 4"& U K& B< 04<45' 4"& U U 4 G<?& <4 :@94 ; A' 4-<240& @ ; ; 42B5' [: ?' '"9< $< A0<&\' Y K' 4504@C& :A 2"\5' B G 5 2' 4"& UZ' 45A<' & $<"< & UU 455<29 ! :5<2& 4G :" 4"& Y ' C5" 2-5& %4 <2& A<4 9 ; <2" & YKU 5NN)& 41B ' << 4B<& Y 4"a <0B"& $ 2@<& G< 2 ' ' < 0 2& K 4 : - = "a& 9 5" 42' <2 ? 94 0<5& : 2" G 2& YZ& ZW& A ? & U & UW& ' 5NN)& 4 G<5 4" $425& U & B 5 ; 5540 & Y & 4BG @< & & W 425 ; 8' "9<& @<B<B' " ' :5" 4& U ' 4 :55<2& C4""0< 4" A 0 KW& K WE& ZW 4G424& ' <2@9' 59 A' 4"& Z 4G <& ' 92 9' " A5' 4"& & " 4B< 2& Z 4=><5C2 ?& (B& ' (G< A 0& ' C< " 42>5' 6<2> 25 2& 5<@ 2B' 4 0 ' 4?0B& 4""< ; A"<B' @@ : A4" 2' & YZW& YU ' B 2G <& 4C B 4 < 9 B <& : "< B<& ' <2@9' -<2< 40& @9 5<2' '"9< A4@ m @4" 2' ' ' 42@<& & K '5N) ZB 2G <& / 0@ 045 6@42 C4 0<5& : "< 0 B<& ' <2@9' B A0 ; 4" 5" 4" ' 42> "& ZKZ' <-%& 0 @9& Z Y ' < B@ C ; -& @<B<B' " ' 4B<2& WZ' <05C< -& <22 -5<2' 4"& W ' <0 - 042B& @4A" ; <B' C? 2-042B& & 5" <5' 4"& YZ' & K& @<55 2' & UZ& & @@ : A <B' C? " 59& ' <0G<" 4& A <@" ' > 2-B ; ' & Z U <0G<" @ <A2C0 @& @ <4" 2' & WU& ' 6 # WY W& B 4 02" 2' & K Z& '0 N : Bm 4" 2' ' B<C" & Z ' <0? :"@9 25 2& 6 92& 4 0 ' 2 2-9 ' : <& & W < 4"& A A 5<B' ' 42@ :55 42' <DA<B " 2' =4? & Z <2 5"8' G< 2 ' ' :B4B' B - & ZU ' < " B) ' 42@ 5' 2- 4 ; E ! <? ; : &5<@ 2B' / 4 N2 5 & Y K < G8& ' <B< @>' : - :5" :5& : "9' 4 0 ' 5" 0& 59 A' ' < ?& W ' <55< 455<0& % 00 4 ; ' & 0<@" ' & <@< G<5 4 2a "< " ?& WZ& Y 'F B<A 5 " 2' & Y & 4" "9< 2- <55 ' <224& U & K <! 5< 455<0& 2@0 : B<B' 2' > 2-B ; ' %<5"A940 4& & 5 2-' 2& U8 Y ; ZKK& ; 8"4 ?0 < 2& ZK & 5 : C5 B? " <4"? = "9& 8 <55< (4 ; 5"4B"& 25' 42@<& U & 4<' @<B<5 " "9< 8<25 G< A0< 00 42@<& WY

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1 8 9< 2 -<0 2 -<2& ' <B< @> (: 5&
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Y Y 5NN)
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Y
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Y F 42B " <' S@: <2@?& W
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' 5NN)
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2 5"< ' $: C0 @ 25" : @" 2& ' F Y F
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Z 8 F 42B "9< ' <2@9' 9 2" < & Z 5N)
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K ' 5NN)

/ ' \ 6 ! !! # 1 # YU '
8 2& < ; 4B ""< 4"& U F 42- = "a 4"&
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@ 2B " 2' & ZK F > 2-B ,' & ' '
; 4<& G< 2 ' ' 4B4 a& 5 : <2B< 5& Z '
; < " 4& 5 : a< 4 2"? ' : 55 4 G< & U
; D= 40 <@<55 " K & WU
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B<5 -25 : A 2& Y F ' <: 9 @ 0 2 40 <DA<B m
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<DA<B " 2' " (! F (K (H A (5(455?P <4"?' (U
B2@"5 h(F " 59' ! 2 A < 9(Y UF ;64G4(4A"2 4' K KKE(Z F @@ : A4" 2' (
2B <(: 4? 5< a<5(GY F <5" <B" ' 0042B(Y UF !"4 ; B'
2 42"4B (:9< (" <B' 42B' 4@4 : ""<B(4 0<5' 2( )YUZ
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2- 05"4B"(<4 :' C<5 <-<5(Z8' 52 <2BB' # Y
(UF 42B' ; ?@ 55<5 $42 : C< 2<4 (6<0 4<9 ; ' G 2' : a ; (4 2' ' 42N 5'G 2(
UZ 25" 42' -<2< 40(UUF 5: <2B< ' (" '
: -< <4 : (U F ZY
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A 2(@4 ; A' 2' "9<(UF F 25" 42' 9 A5 4"(YUF C4""0< ' K E(Y ' 5N)((
@ 55 "9<' K UE(U W(K (Z (UW F ' @9"<' 4'' "9<
225C : @>(C4""0<5 UUF < @ 2N : < <B' $2 G< 5 "? (U
C? 25" 4(U 6<22< (< 2<5< ' <B< 40 5"(WY
2 42' 5042B5(@ 2N : <5'' (ZKF 2B<A<2Bm 6< 5N ((4B?(2 0 : <2@<' (YU
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" 59' A "<@" 4"<' 2' "9<(U Z ' Y F U ZF B<5 <5 <2<=40 ' =4 (
<042B(' <2@9' B<5 -25' A 2(Y F 5 : --<5"<B UWF U
S' <2@9' < 2" 4"(KZF / 4A 0< 2)5 A04250 6 92($<2(' 4a 0($ 2@<' <-<2" '
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W F B 54 <@" 2' 2(WUF <C<00 2' 2(0 G<2N4(U
Y K F A <@" ' $2 2' G2"C(Y ' 5NN)F 6 925" 2(4 (2' <=' ! : "9' %40<5(Y W
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2- <55 ' <224(' 5NN)F 4A 0< 2)5 A ! ' Z 96 '# K 'F' UY ' J
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B Z " ,

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UU F 2' "9< : 2@ 0(' %4 ' UF 4B' 94 4 ' " ' "9< : 28' K 8 S & 04@44"4& B : @9? & 2A A 4"<B' 2' "9< "40 42' >2 - B< ; & B ' 4 >G 2 < C< @9(94 0<5& 4 2& < ; 42 -<N< 40& 8 F' @ 2 " 2$< & = "9(\ 54 05 <2G ?& U F 4BG @< & " ' "" < ; A< & U F R4 H "404"< ' 4" ; & UZ 8' 0 [4@><2a <& " 59' B A0 ; 4" @ 4-<2" 4" 05 "& WY 4@><2a <& ! ' 0<D42B< 8' 42B' 424B4& YZ ' 4@ <G<2& % 00 4 ; ' 64 ; <5& 42B' "9< 2 "<B' 59 ; <2& Y '5NN) 4@A9< 5 2& 6 92& ' 2B 4& Y W 5NN(4@N : 4 <& 4 - 908& 8 <2< 40& m G< 2 ' ' <=' ! : "9(%40<5& Y W 4B4-45@4 & ' <2@9(@ 0 2 40 <DA<B " 2' " & 4BB40<24 4?& <05 2(5 C45< 2& 8K ' F' KW 4B< 4& 942B<B' G< ' " ' "4 2& Y 4B 45& " B' 4@4 "2<? 4"& YK F (B' "2 2 -" 2' 42B& Y F < ;' 2& Y F 6 4B B& <48' ' K KE& YU& F B ? 42B& Z F ' < B 242B' - <5 " & Z K F Z ' U 25 : <@" 2' 4"& Z F : 4" 4"& Z Z F 5" ; <5 & Z U F ' <2@9(4 @<5 : & Z F / 2 -' 6 5<A9(<G4@ : 4"<5& Z W F ZZK F 4m A 0< 2' 5" ><5 4"& ZZ ' 5NN)F @" ' 42B& ZUK F <2<-45 42B& ZU F %<00<50<? 4 05 " ' <@ G< & ZU F 84 - 4' ; B& ZUU F %<00 2 -" 2' <2"< 5& ZY F < @@ : A <B' 9? "9< ' <2@9& ZY F <G4@ : 4"<B& ZYY ' ' ^ # 94 0<5' J5 ; 42 <5" ' 2' "9<& Z W 4-B<C : -& $: 55 42' 4 ; ? 4"& YYF @4A m " : 04" 2' & F W & F " <55' &, U F UYF @9 < ' 0 " <55' ' > 2 - B ' ' %<5"A940 4& ZKK F 2<=' @ A5' ; <B' 4"& KZF ; 455 2 -' '" A5' 4"& KU 4- 2 B< 0 5 $ B& 94 0<5 <2"& ' <2@9(4B ; 40& B< <B" ' 54 0 ' %<5" 2B <5& 49 ; : B' & ! : 0"42' ' : ><?& W 49 & <4"? ' KYW8& Y ' 4 B4& 2 - 0 59(G ; ? 4" K B& ' 6 92' ! " : 4 "J5 G @" ? 4"& Z Z 4 2a& ' <2@9(; ; 55 2< ' 4%8 W F " < m " ? & WZF <B : @<B" " ' A 5 " 2' ' 4 5: 4-49(5<< F (: "9< 42' @ 25 5" ? 4"& ZF ; 4 - 4a 2< : <B' 4"& F " < ' 4"& ' YZF ! "< 2' 4"& WF 4"" < ; A" " ' @ 2G<? A B : @< " & Y\gF ' <2@9(4 ; ? 4"& UZ F 4G4 42' B<5 - 5 2& UW F ; m A "42@< & W F <B< 40 " <55 & UW 4 2a& ' <B @9(4 0& 0<@" ' & F ' 40C< - 4 5" <& 6 5<A9(B<& K ' 4 "042B& 8 B ; 40' ! ' ' <B< @>: (<= 5(5: <2B< ' ' 4A 0< 2' " & Z F 4" @9< "& ZZF 42B' 4A 0< 2& YU ' 4 "042B& ! '$< <- 2<& <2< 40& 4" %4"< m 0 & W Z 404@@4& @4A" : < & YU 404-4& @ A5' ' ! <C45" 42 ' 4"& ZUY 404 " <& <2< 40& 42B' A : & Y ' 40@ 0 ; & ! ' 6 92& 2' 2B 4& Y F Y F ; 55 2' & " ' $< 5 4& Y ' H 40<"& ! ' 94 0<5 (%4 <& A<5 B<2" 4" $ 24& YK ' 0 S & 40<"& 04 : B< ' 49@ 5 B<& ' <2@9(-<2< 40& @ 25A 4@? & K Y& KZ Z& Z 40<G 00<(64@N : <5& " N : 5 B<& K F K ' 40 2<5& 4 25 <@ ; <5 45" @400? ! : C B 25 < " & ' *) 0 0') 40 ; 4 5 2& 24A4 "< 4"& ZF 2 & Y F 0' 25" " : " 2' ' K KE& W W 40 ; <5C : ?& ! ' 64 ; <5 4 5& 5" 4 0 & Z F 42B' "9< %9 - ' A4 "?& Y ' 5NN) ? 40 ' 4 504G<"a& C4""0< 4"& ZWW ' 0 & 0 40"4& 4"94 2< 60(5 <04" 25' = "9& W 5: <2B< ' & " ' "9< ' <2@9& Z F 2G<2"<B 0 C? "9< " 59& ZK F @4A " : 04"<5& Z ' F Z F A < ; 4" : & 0? @<B<B' " ' : 55 4& WF <m 5" <B" ' "9< / 2 -9"5 ' 40"4& YZ5NN)F " 59' <"<2" 2' & K F @<B<B' " ' : 55 4& K KF WF 5" 4"<- @ ; A "42@< & K F 2-0 59' 42B& ZZ ' F F 4 @<2" < ' 2-0 59' @ ; : < @<F KF "9< / 2 -9"5 B G<2' ; & ZF @<55 2' & " ' 8 ' "4 2& UZF G @ 55 " : B<5 A & YUKF Y ; : <02><5& "9<& ; ' & F 400 & Y 42-40 <& <4"?" & YK F ' <2@9(042B' 4"& Y K 429<5& 94 0<5 2" 2<& ; "<& ' "<2B ' -<2< 40& 5<G< "? & 2' 404C 4& Z ' 422< 5 ! : "" : & 9 ; 45& 5" 4 2' 422< 5& 942@<00 ' ' <042B& Y Y 4229< ; & @<B<B' " ' 4B<2& WZF 4G : " /* A? 42" : 4& @<B<B' " ' ' 42@<& WF 2B <45 < ' 59 " 4" ' <C : 4 ? K& K K B& U F : 5" 42' <G<2 : < ; & W ' 4 0"945& =4 ' ' A : 4-4 25" "9<& YK F YKU& YKY F ; 0 "4 ? A =< ' '"9<& YK ' 5NN)F 42B' ! 2B9 4& YK ' 5N)F 4" =4 ' = "9("9< a0 ; & Y ' 5N)F %<00<50<? 42B' "9<& Y U 5NN) 4 C2 -& @9B : >< 6 92' 4"& U F ZK K ' 4 @942B& 6<42 4C <0& ; "<& ' <2@9(-<2< 40& ; <<"5 <0 $4 N : < 2<4 ' !404m ; 42@4& & 4 <C <B& C4""0< : -9" 2' "9<& U ' 4 <2- & C4""0< & KU & & Z & ' 5NN)& KU & Z 4 <5@40@9 & ' < B 242B& Z 4 <"& : -9<5 < ; 4 B& ; @ B< 4554 2 & K F <@< G<5 "9< B : @9? ' 4554 2 & KK K F KZK& KZU F B 54 <@" 2' & Y F C<@ ; <5 !<@ <"4 ? ' !"4"<& K ') 4 -4"<& "9 : ' J 22 ' 5< a<B' 4"& Y K' 4 4' 4 0 2<& c : <<2 ' 4A0<5 42B' ! @ 0?& ZYF KF 2 8 <5' 2< ; < C B' A =< & ZF 0 -9" & Z ZF B<4"9' & Z 4 4' ' < B G24& 54 54& F ; A <55 =4-< ' ' : 55 4& UF 42B' 4A 0< 2& Z

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< 5<@ 2B @ "? 2 "9< ' <2@9 ; A <
Z WF / 2 - 42B c : < ' ! A4 2 "< Z F
: 4" @@ : A <5 K
2< / 2 5< 4A 0< 2 2 '
; ?% ! ' !4 ; : <0 C<@ ; <5 ! @ " '
; "< "8 UF 42B< ; 24004 = W ' F W '
2<<5G400<5 2 - 0 59 - : 4 B A455 Z BYWF
"4><2 C? 2 < ' 82 9 Z '
545 "4><2 C? ! 4 2"' ? ' "9< 08 <45 ?
YWF
5<2C ; 8 ' 2<< B< <4"<B C? 4G 2"
6 : 0? U K *E '
5<""4 " 59 B< <4" 4"' U
5 0?' ' <2@9 4B ; 40 52A< 5<B<5 00<'
2<""G< W
5042 > 4"' UK '
55 4 2 <= ! : "9 %40<5 Y Y
5" A@9 2 : 2" ' < B 45 0 <G "<9 UF
Z '5R N F A0 " ' 6 A F G< 2 ' ' 5
@ = ZW
2 - <" B4 0 050<< 042B< 6 5<AC 42B' "9<
' 8 @ 9 ' <5" 4" 2 U U
" : 2B 4 : 55 42 B<5 - 25 2 '
: 55<4 : 6<42 64@N : <5 " 4 9 2 - 5 <
K F 2 0 : <2@<B C? 2 - 0 59 = "< 5
Z g
?< 4 B ' < < ' 4 : 0 K '
@9<0 25" ' <B @9 % 09<0 ; ' $9 0 AA
G 2 $: 55 42 - <2< 40 YZ U F '
<> 8 ' <B @9 42B < ; 42 24" 240
<<0 2 - U
- <2 B 4"9@4 " 4"' j WF " 59
@< 4"' WU @<B<B " ' ' 42@< EF
<5" <B " ' ! = <B<2 F @<B<B " '
$: 55 4 U
2 - 4 042<5< 4BG <4"<' 2< ' "9< 4 '
A 2< : ; G 4"<' Z &
H : ; C 0B ! ' < - <' ZW
2 ; 42"a< 0 : 2"' 255 42 5"4"<5 ; 42
2 Z U &
: AA 2 9<20 9< 4"' YW

255<00 9 ; 45 -42 5<5 <G 0" 2 05"< &
Y '5N)
255 4 42B < ; <B <:" 40 "?% 5<<
94A ' F <04" 25 = 9
<4" "4 2 Y U Z Y U
5N) F = "9 ' 42@<' YZ Y K U
ZU YK F 2 0 : <2@< ' ' <2@9 B 545"< '
2 F 24G40 0 55<5 Z F <04" 25
= 9 : 5" 4 ZW F K Y F = "9
$: 55 4 Y F 42B $: 55 4 "9< "" ; 42
; A < RE F 2G4B<5 ' 2042B K F
4@N : <5 %4004@9 4 42B 0B4G 4 F
<@< G<5 40?5 >< YF <04" 25 &
= "9 : 5" 4 42B $: 55 4 ZZ F 42B
"9< 42 2 4 0 Y F 42B ! = <B<2
YWF N24 <05 = "9 4A 0< 2 F 42B
"9< < ; 5< 4 2"? ' < - 4 UF A "<@"5
9 5A B4 5 0B4G 4 42B %4 4@9 4
F A ; 5<5 9 8 ' " ' ! 20"42 YF
' 42@ $< 5 2 > 59 400 42@< 4-4 25"
F ! : 0"42 @<B<5 @ 08G 42 042B5 " &
WF <04" 25 % "9 4A 0< 2 U F
U WF = "9 ' : 5 8 ' UK ' 5NN) F 42B 0 <
< B9<2C4B E A042 U F 4 = 2 2
4A 0< 2 5 8 ; KY 5NN) F ! A42 59
A 9<? WF 42B "9< 2G45 2 '
K K 94A X F 42B "9< 2- <55
' <224 94A5) X X ' 42B ; % F
42B "9< C2G<2" 2 ' / 46 5@9 UYWF 42B
"9< <4"? ' < @9<2C4@9 U) F A 0 @?
K
25"@92>< 255 42 @4A"2 < ' Z U
?042B < - <' 2 - 0 59 ; 55 E YZ

!>1B4" 00 %4a ' ' 2B9 <D4@" 25 ; &
Y K
!44 0 2 5 " <55 " 425 < <B " ' < m
; 42'?' Z
!4C2 - 40 B< <4" ' ' <2@9 4"' Z F %<0m
0 2 - " 2 4"' Z
!4@ 0<' 42@ "40 42 4 ; ?B< <4"<B 4"' UU
!4<><2 ') G 2 B< ' 0 5"<2) $ 2@< B<
255 42 - <2< 40 @94 4@"< ' ' U Z F 4"
Aa - U WF 2 $ 042B UKZ F 4" 4
' "5 UZY
!4-22" C4""0< ZY
!494-2< <2< 40
!49482 < 4"' ZZU
!" ; 42B 5" ; 2 - Y
!4 2" 0 2B 24A4 "< 4"' WZ F !<24"<
<5 " F : 2@ 0 ' !"4"< 4"' KY '
YY F " <4"? @ 25" " : " 2 - C<2 59 2m
<B< 4" 2 4"'
!4 2" ? ; 0 "4 ? 5@9 0 4"' K Y F ZK
U
!" <2 5 C : 40 ' 2 5 X ' 4"' UY '
!" a < 4""4@ 2 UZU
!4 2"< <2G< 42B 4A 0< 2 5 = " 2 - 5 Y '
!4 2"< D C4""0< 4"' UU '
!" 400< : @ "" 2 ; 422 4@"2 < 2 Z U
!" < ; 4 2 ; 0 "4 ? 5@9 0 ZK F U '
!" 00<5 C4""0< 4" K K E Z
!4 2" 6 "94 B A455 UWF K
!" <0<24 4A 0< 2 4"' Z 'F YU ' 5NN)
!" <25 . ' M*

)) K))

,E E_ C< <" < ""5 & YY 4 H R
04" <4 K E& Y 2<- " 4" 5 @ 4
5 ; 8 2 KZ
! "<G 5& ZK
! 8< & 4" ; 5" 4 ; "! &
* f ! *W d
! " <>C @8 /5 3 "@8 4 8
A <"4 25 " & Y ! "48<0C< -' 4"& c %"<#"* 8 "& 8 Z
!"4= " "% < ; ! ""& 1 4 Z
$ 8 "42 f ?' 4C B& Z

455" 4 H7* ! K
Z + <] f 6$! <DA<B 8' Z &
4! + 4"A4 "& f Y &= 4<4)
C? 4 00 2"
! <% 5' 2 % _ f d ! <* #
!" ; 8 / 20& 4"=' 4% B25?' j ?* 1 &
5 8' 4 " X B 8 4)' K
$* $.' 8' ; ' 2<Z)e - 5<2& Y
" ! ! 0' K8 "8 % +
8 9 4 '4"& ZY 0<=

8 4-42 0& <= " $54 ' <5@2<0<B " ; ' !"
"8"=4" -& 82<""<< Z
!24 :"& ! ' 04 2& 2 "B4C 4& " 2
! < ?& R ' "" 4 B4&
7 D J 2' <?0 0 Y
0' " < <"<a 44 4"&
7 <? 4"& f ! ! 8<0<<2' < 4 48
4"& Y
! 2" <"& 20< " <&0 2<BJ 0C4" 4& K
"< 8 8' Q # KKK B< <4"5%4 2' C<'
"<"< ! 4 4 &4&Z Z "<<B4" G=B4 4 8&
Z Y @ <A48 = "9' C"4<B= 40B&Z Z C< '
4 < = 4 "R*4&Z f ZY B <4<" 24<0 4 '
< 2' " 8' ZY K 4Z 4 B & ZY ' - F

!0 94 <5' R ' * ' 24 <5

! 42B4& 1 4 ' ; B' " <' $4 <=" <5<& YK '
! = 4 "& " 2 - " 2J5' B ?' " & Y 8 '
! 244 & = B4@<B' K ZE& Z F Y

! 4 G ! 0 8 ; B % ' 44" <G "" & R8 : 2"&
:5" 44 -<2< 40& ZK Z W Y 04 >4'
B< <4"<B' 8 &
! 2 42<"& 2 <244' 0<4B< & K Z
! = 8 4& 42B' " <' =- <44'] ' . ' '
! =<B<2& 54 85 B A0"4C4" ' <4"24' = " & Y
<DA "5 & Z F 4 <54 " ' < 4" <& ZZ
$42 42B& Z F 4"" "4B ' 8'" =4 B5 2424&
U F <04" 25 & <"" ' <4" " "& F
25 A" 2& ZW % ' # = " $ 42<8'
W F F KZ& K 4 04 ; 0<4B 2 - " '
<G4" " 2' 2& ! K Z F 0< 8 25
& " ' % A 42 $ =< 5& ZZ <2" <

42B' "9< 88<45 ' <224& & W&

8K&8 Y& K 5-<2" ' ' <4 0<5 X &

! = <00<4B 8' 44 <2B< ' & YZW
! = "a< 044B& Y Z <B <@ 5 ' ' : 9'
<< 04" 5 2& W F B 5"2 C52<<5 2& W '
K F 42B ' " ' B< ; 42B 8 K F 24'
$ "<\4' A = ' 4 ' K Z F Z F 42B " <
<224& 5 - N) 25'
42B' 00 42<<& F A<"A<"44 02<424 "?
& 'F Y ' ' BG<" ' 82C0 K'
! ?B2Nq& $C ; 44 85<2 B& <45" # 5< : 2"&
42B' / <% ! 2" ' %4>5& Y '
8 8 ? & " 2 ? 5"4C 5C<B' 4"& Y Y

4R" 4R8& < <"4" <004-4 B<\<' 4 ; ? 4"& ZY
2 ' ZY)
X4 B 4 ; <2" & " <\ $ 2" ' 4B<4 <' # F
" B2><' C4 B<<5 4 "& 8 '
2 %' " <& " <" ' @<' 2& ZF 24'
4 = 8 2 8 2 ' 2& Y F ! A42 4 B5 400?

ZZ F @" J ' C<4B N44 "=5' 4"&

) $'"" < 'B<' " " <4" ' K F 8 * 4B45' 4A '
6 ;)4 B ; 24" 2& K F 8 ZY& &Y &
K K F 0<4B<' ' 4' A<4@<' A4 '"?& K ' F %Y F
" < 44B' <<"=& KK F K F 2 ; B'
C4 ; C=0%2& KKK F < < G<<' <2< <2" &
")F K & K WZ& W F 42B' " <' 2'
@ B4"<& K Z& K W F K WZ F <" << ; <2" &

& Z F 4
<+ ' & , + & Z Y F @ 2@< 2<B' 2
2" " 245' " ' $4 5& ZZ F 2"< G <=' = "9'
0<D42B< & U F F 42B' "0 ; ' : C 25&
UW4 - N) F 42B" < 2 <" ? 0 2 X 2 &
#' 8 < ' & Y F 5 ; B " ' 2 ' B)
< ; 5& Y F 5< G @<5 8' Y F 42B' " <
% " ' $<4@<' ' $4 5& UY F 42B' " <' 2'
- =5<' ' <224& YW& Z& ZY& &
Y F 42B' "9< 404G< " 4B<& " F 42B' "9<
A<45<' 2<- 4" ; 4& Z
X4 ; 4 ; <5& < 8 5 9 ' 4"& Z '
42 <& " 2 8 2 J5' =0 @?' , 2& Y Z'
8C 8 1 4' 8
2 % ' <<B<B' " ' $ 42<<& W F <G4@ : 4"<B&
YY U ; 2" ' @ = 4" 2' & ZU
4 8 &' :)6< 2Z 1 A B5"<& KY '
$42 <& ! A42 59' R* 5<2" " & Z ZF Z W
8$4 ; A" ' @<B<B' " ' : 55 4& Z '
4 4- 24& <B 2 -)4 4 ; ? 2& ZZ F C<'
" <- -<BC ? ! : 9<"&Z F "4"><2& ZY F 4C42'
B@" 0@B' ZY 8
4 " 2 & 25" 42' <" <4" " & ZWY '
\$4 G 5& 25" <25' < 55' 2" < ' <"9& U
$: 0<24 <2& - " "G& : 2" G 2' 0% ""<2m
C< -& $ 455 42' -<2< 40& <" <4"5 C< <
<2 4B """ ' Y F 4" 6<24& j Y F '5<4)
$42 --<2& 2G<2 2' ' K K E&
5 8 0 8 8)' " 59' 2 5"5 ' 4" R82

@9< ; "@0 < & 455 42' -<2< 4,& 42B' 4ARER 0< 2& Z YF 55<< = < B< & UKZF 4"
(U2<C2 -& UKU
9 "<8 0& 420 4B <G "@C& :55 42'
4B ; 40 42B' -<2< 40& @ ; ; 42B5 4 ; ?'
'9< 42 :C<& Z WF B< <4"5 ! 9=4 a<2'
C< -& ZWWF ; 4 @9<5 " ' "9< < <a 24&
K 5-N)F 25 % ""-<25"< 2& UKKF 4"
; C< -& UK
<<>0<2C -& $:55 42' :2"59 A & ZK '
<9< 42& 68<2@9' @< 5 5<2" " & WF
$ <2@9' 4 ; C4554B ' 4"&
<002 "a& :55 42' 4""4@>' 2& '
<A0 "a& (: 5 24A4 "< 48' YKF <" <4"
' 00 <5 " & YF <4"? ' K K E& Y '
<5@9<2& $<4@< & WF W '
<55 2& "9<& 42B' 2- <55' ' <224& Y
<""<2C 2& :55 42' -<2< 40& @ 55<5 "9<
B< & KZF <2"< 5 1 ; C2 -& KU
<:" 2 @ B< & 42B 45"< ' "9<& WZ
<a<0& 00 <B' @< 4" "9<& KW
9 C42B<42& 2" 2< B4 <& ; "<& KUK '
9 <0 ; 422& 6))& <2< 40& 42B' 9< 8 - 49'
@4 ; A4 -2& K 4" % 4"8 & Y 5NN)
9 2& <? 42B' < ; 4B ""< 4"& Z F ' <2@9'
C45< 4"& YF @9B2>< ' < B 242B' 42B&
UZF " <55' & UKKF @<B<B " ' $:55 4&
W 'F UU
9 :-2"& ' 42@ !0 4 <& 4 A2' G 2& 25'
" 8 ' 5"4"<5 ; 42& F UF $ <+2
2 5"< & Z 'F KU& UWK'
9 : ; < ?& 4 N: 5 B<&
92 0 =& B ; : : B& 5" 4 2& 42B' "9<
(C<0 00& Y
< 2<?& < -<&0<4B5' AA ;" 2& Y F K
05 "& <"2 = 3 ' 4A 0< 2' ; & ! YF
255 !2 4 ; ? @ 55<5 < ; <2' 4"& WK F
@ 2 < <2@< 4"& F <4"? (KW & &
W & WZ& WU& W & WY& W & WW Z F
5<@ <" 4 " @0<5 & U F & & KK&
Y& W& & Y& Z F Z& & Z F
C <4@9' & 2' A4 " ' 0<a42B< ' (' YWF
U& Z & U
A :& ! :0'42' ' ?5 <& F <04" 25' &
= "9' "9< a1 ; & YK F YKZ 5NN)F = "9'
! 2B9 4& Y 'F A =< ' & Y '5NN)F B<4"9'
& Y
C4- & <B :@<B' K E& Z F <"4 2<B' C?
2 - B& U Z F @<B<B' " ' <4" 9 : 2&
UY 'F YZ & Y U
BA0 "a& 5<< <A0 "a
0<B & < @@ : A <B' C? ' <2@9& ZYUF <05< '
4"<B& ZYY F ZY
0<2" 2 & <4"? ' KYWYE& F C4""0< '
K KUE& K
00& <2< 40 G 2& 4BG @< & ZW 'F ZWY& ZWW
05" & :2"& :55 42' 4 ; C4554B & WF
K &
05" & 5<< 5"< ; 492 05" '
2<& % 0 <& A4 ; A90<" & WZF WYF
B<4"9' & Y
>< 2<& ; < ; C< ' 0B ! 4 ; : ; & K
-42& 5 : <2B< ' & UK F @<B<B' " ' ; 8 ; 5'
5 4& W
; 455 :55 42' -<2< 40& @ ; ; 42B5
<5< G< K K E& Z WF 4" (: "5>& ZW Z'
@ ; ; 42B5 ; 4 2' 4 ; ?& ZWY 'F U K 5NN)
; <5& " 59' 4 ; ? 2' "9<& ZYU
<5 <B 45& 0 2<5 8' ZU ' F ZUWF 45'
5B24' 4"& Z
" 54& ' <2@9' 4""4@>' : A 2& Z Z U'
: 0 2& :55 42' <aA<B " 2' ""<B' : " 4"&
Z F ' <2@9' 0<<" 4"& U F K & K '
" 59' C0 @>4B< & KKF KZ& KU'
/ <05 2' 42B& K F ' <2@9' 59 A5' 4"& KW'
00< ; 42B' 42B& Y F " 59' 4"& W'
: 4" <5 4A<5 " & F (=< 4"& Y '
: 0 : 5<& C4""0< & Z '
2 ; <C : "& ?40 5" 5? ; A4"9? 4"& K '
4@?& 2" 2< (: 5 04 : B< <5" : ""&
: "< B<& L
4 40-4 & C4""0< ' K UE& KW 'F K &
' !)F 5 -2 @42@< & Z '
42"& ! @9 045& C -4B < -<2< 40 2'
$< ": 4<5< 4 ; ?& < 2A <5 ; C 4& Z K
45 5 2"<5& %<00 2 - 2' 5<2B5 " A5'
" & ZY
4G42@ <& 4""4@><B' C? A : & YKZF YKY
<C a 2B& $4@94 & U
<094 B& 6<42 4A" 5"<& ; "<& K ' 5NN)
<2"& '><2<9' 4 ; ? 4"& F :5" 4'
<@< G<5 C 59 A ' & WZF : 2@0 &
KW F 59 A & @'<A "<B& F <-4 2<B'
C? :5" 4&
8 <G 5 & 4 ; 5" @< 4" K KE& '
42 2& "9< 4 ' : - : 5" U& K K E&
Y 'F YUF 4A 0< 2' 4"& Y F (: 5'
X ; ' 4"& Y
< & @<55 25' " ' $:55 4' 2& UY'
<5"<& <"4 2<B' C? :5" 4& KF A " &
ZK F <-4 2<B' C? :5" 4&
2 B4B& <"4 2<B' C? <4" "4 2& YUF
YYF B5 2' ; G<5 2& UF @4A": < &
Y 'F Y
A 0 & @ 45" & U '
: @9<"& ' 42< 5 <2 5& KU '
""< & $4? ; 45"< <2< 40& : 2B< ' <0m
G 00<& Z
?<5& 4A 0< 2' 4"& UZW
: - : <"& (42 <2" 6<42 ' 4 : < 5& ; "<&
' <2 2' 4B ; 40& 2' @ ; ; 42B ' <5"
5N24B @ ; & B 5 ; 55<B& K '
?& ; < ; C< ' "9< ' <2@9' ; ; 55 2'
2' 8 ' $ @<B : < K E& K '
54 5> < ! B & 54 ' 4"& Z
2B<04& !A42 59' B< <4" 4"& ZZ Z'
, % ! ! # "9<& '
2 0< <5& "9<& ; <<" 2-5 ; "& WF 2<=' < 2 "
; <B' 4"& F ; 4 4-< ' 4A 0< 2' 4"&
KZ F =<08 ; < " ' (2 5 X 000' 4"& U F
A A 5<B' 4554 : 0" 2& UY F " @ 0 : '9 5"<B'
2& UYUF 4A 0< 2' 4"& K F (2 5 X '
<": 25 " & ZU
: <22<' <2 ' B< 04" : ' B) : G< -2<&
; "< B<& 4BG @< & W '
; B2& B45' B< <B' " ' ; 4 @9' 2& KF
" ' C< -400 @ 5<B& WY
: ><?& <4"? ' ; ' <25' 42B& YYF ' <2@9'
" <4"? = "9& Y F ' <2@9' B<5 85' 28'
Z F <04" 25' & = "9' 255 4& KF &

- & < ; 42B A : "5 2" & U 00<2< : G< <" <5 " & 'F UK H ' <2@9 59 A "4><2 4"& 004 "&6) 9 ?5 5" 20 B<&5<< 4540& 59 A

004 <" B< 6 ?<25<& X 4 5 X9 ; 45& ; "<8 4" 4 " 2 N : <& K 004G < 54& B ? A 5 2< ' 4"& Z K <2<2?<& B<& ' <2@9 G @< 4B : " 40& 2 @ ; ; 42B X 2" 2 5N : 4Bm 2& K 54 05 " % <5" 2B <5& KW @4A" : <5 <05 2 5 B<5A4"@9<5& 54 05 ; B4 - <24& B< <B " 4 "" 4@> 2B 4& B< <B " 4 " 2 N : <& 54 05 % <5" 2B <5& U <" <5 " : 224& YF @ 2@<2" 4"<5 4" 4B 5& C B< <B " '"9< 94 : 2<0& ")F W 4" 4 40 - 4 & 5NN) <" <5 " - & UK 00< 5 ""< <"5& B 242@< KU W K Z K W 024& : 55 42 4 ; ? 4"& ZW 4A 0< 2 4"& ZWK 2 4" 4"& U W : < & " 59 4""4@><B C? ' <2@9 4"& ZZ K 2@<22<5& 45"0< : B 2 - 9 <2 4"& K 2@<2"& 4 2& : 5" 42 4 ; C4554B & 2@<2"& 0 2<0& 5<2" " ' 4 "5C? : 554 : " (: G< "2 <& Z K 2<- 4 ' 00& @4A" : <B C? (4><& Y 2> G & : 4" B< <4"<B 4"& ZW 5@ 2" & 042<5< 4BG @4"< 2< 5m 40A 2< : "2G 4"<& Z "<C5>& 4 - 4" 2 4"& ZWK : 55 425 @4Am " : <& U " <5& : -@2< 42@ 5 : 7F 5"< 24 : B& 4 2 B<& ' <2@9 ?4 5"< ; 554 ? " ' 54 & UU F U H0F 4BG @< & YZ C<5 <- <B 2 : 0 : 5<& 8 Y " ?& 4A 0< 2 4"& UZ 8 "" 4& 6 5<A9 24A4 "< 4"& ZYYF C4""0< & ZY 'F U K G 42& ! " 94 B : 55<?& 5" 4 2& (<: "<242" 0<2< 40& @4G40 ?C -4B< &4" %4"< 0 & Y W Z ' 0> G 5>& : 55 42 4 ; ? 4"& ZW ' 02<?& 25"42" 2 ' 42N 5 9455<C <: & : "< B<& K 0"4 <& ' 42@ 5 4 < 2<" B<& K W 0?2 4& 42B $? ' /2 -9"5 ' !" 6 92 4"& W 2855 = " 9& <2< 4E& K 5" 2B<2& G42& : "@9 A0<2 A "<2" 4 ?4" "9< 2- <55 ' <224& 4 0C< -& C94? " <5 " ' <4@9& U F ZF 00 <5 2& U F <" <4" " 6<0 "@9 @9 " & UUF @<B<B " ' 4G4 4&) F :5" 42 d 4@N : 5 " 2 & U

%4@942& 4A 0< 2 4"& U ' %4- 4 ; & C4""0< & WF [- 42B C4""< ? &\' ZUF @ 2B : @" ' : 5" 425 4"& Z F U & ZF @9B : >< 6 92 42B& UU %494C "<5& "9< UF 5 : @@<55<5 & Y %4>< <0B 0C< "& 0<""< 5 ' <? " & Y %40@C< <2& 2 - 0 59 042B 2 - 4" K WE& K 8 F 2"<A<2" 2 ' <4" "4 2 4"& Z F " 59 <DA<B " 2 " & WF UY 5NN)& W& F 422<D<B C? 4A 0< 2 642 : m 4 ? & K K E& Y %40 4<9 4& : 55 42 B<5 - 25 2& F @<B<B " ' 255 4& F 9 5A B4 5 & F A m <@"<B 422<D4" 2 & Z U %400 5& ; 5 @42" 2 ' 404 5& K %400 ; B< : ; C ; & ( )))& : 2" G 2& 4C42B 25 4 ; C : - & U F 2 42 G< & U %40 ; < & <0G 00<J5 ; 55 2 " & 'F Z %4 B0<& Q = ?008 ' (0 ?B& 42B "9< 4 ; ? @ ; : : 55 25 5@42B40& ' & %4 <2& ! ' 6 92& Z %4 54=& (: 5 X ' 4"& F 4G : " 4BG42@<5 2& KF 4A 0< 2 4"& Z UF @9B : >< ' < B 242B " <5 " ' "4><& UZF <@ <- ' 4A 0< 2 ; 642 : 4 ? U& K YE& F ' <2@9 " A5 2& KU F UF $ 0 59 <" 4"& ZWKF B : @9? & W Z& Z & Z Y& U & Z & U K& UYW& UWK5NN)& U %4 "<2C : - & < " 42B 4"& U KF U ' %4"< 0 & C4""0< ' K KUE& '5NN)F 4A m 0< 2J5 4@@ : 2" & Y K %4" @<2& $?? : 2@ 00 & 4" 2 - <55 ' <224& U %4"5 2& 6 59 : 4& 42B <0< ; <2"4 ? <B : @4m " 2& W %4""& 64 ; <5& 2G<2" 2 & Y ' %4""<G 0 <&B<& ! = 55 (49B4 ; ; 422&0<""< '" ') 4A 0< 2 & Z Z %4G <& $: 55 42 <" <4" " & 'F 8 F 4BG42@< ; & YF :@9? ; 4 @9<5 2& ZK M M0 %< ; 4 & : 4" 4"& Y F $: 55 42 <" <4" 2& YYF 4A 0< 2 4"& Y F 4B ; ""<B " ' 2 <B< 4" 2 ' "9< 9 2<& YWF (B' A<"9' 4"& %< ; 4 & 4 0 : - : 5"& : >< & YYF F 2 ' "9< <"9< 042B5& UU F 4" "9<0 2m - <55 ' <224& 'F UWZ %< 2 - 4 "<2& CC<? & W ' %<00<50<?& "94 & 5<< %<00 2 -" 2 % 0<50<?& <2 ?& 5<< =0<?& <2 ? %<00<" <?& 5" 4 2 %<00 2 -" 2& "9 : ' %<00<50<?& 5" : >< & 2' $<2 ""5"B4 ' %48 94A) X A455 ; F 042B5 2 ' $ " : -40& UF @ ; A04 25 ' 24G?& WF UYF < <0@" ' G @" <5 & W F Y & 8 ZZ F @ : ; 42B< 2 9 & ZZK F 2 ' $ "2 - "" & ZZW 5N -) F 6 : 2"4 42B& Z UF A <A4 <5 B< <2@< ' $ m " : -40& Z '5NN) F : 5<5 = <4A 2 ' 9 : 2 - < & 'F C<5 <- <5 0 ; < B4& Z UF 0 55<5 & 4" ' 2<2"<5 B ' 42B 0 ; < B4& Z F 2 5" < ; 4B"" 4& Z YF 4 05 4" 4B4 a 42B :B4B B2 - & Z F < 5 C4" < 4" ! 4C : -8 ZU F "4><5 : B4B B - ' 42B 4B4 a& ZY K F <2"< 5 4B B& ZY F 4" : - 5& ZYZ 5NN) F C< < $4 ; A<0 : : 4& Z F 4" 4? 22<& Z K F = 25 C4""0< ' :0 : 5<& Z F 2 $ 42@<& UZ F 4"

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